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AUGUST 23 1958



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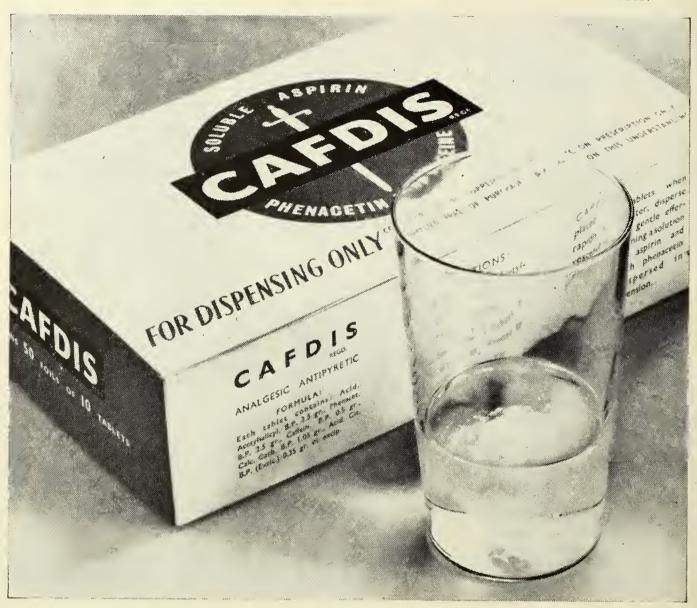


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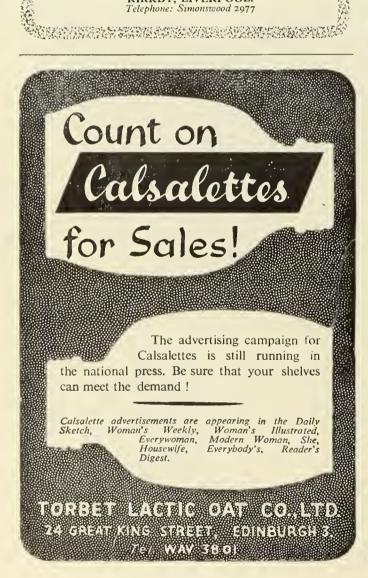
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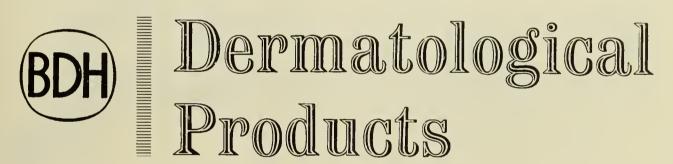
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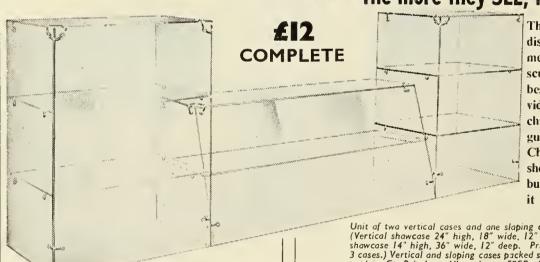
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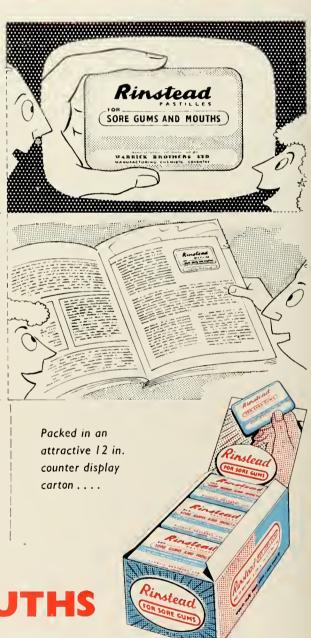
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WARERITE waliboard

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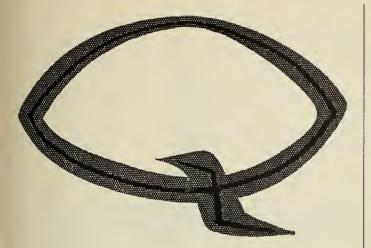
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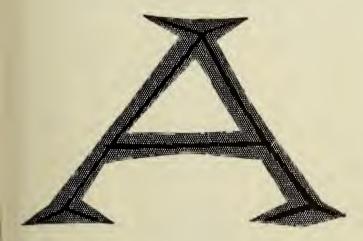
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together help build healthy babiesmake healthy profits too!



THE CHEMIST RUGGIST

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 170

August 23, 1958

No. 4096

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HOUSEWIFE
EVERYWOMAN

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Featherweight jars 12/3d (inc. P.T.)

Volume 170

AUGUST 23, 1958

No. 4096

Drug Tariff Amendments

"COMPULSORY" LIST ABANDONED

THE Minister of Health and the National Health Service Central (Chemist Contractors) Committee have agreed to further amendments to the Drug Tariff.

Chemists are no longer required to keep in stock certain drugs, preparations and appliances under clause 15 of Part I of the Tariff, and that clause is deleted as from August 1. Provision is also made for the full pricing of prescriptions for liquids and tablets to which the dispensing fee of 4s. is applicable. That affects prescriptions dispensed during August and subsequently. A notice setting out the new arrangements and referring to the additional fee of 1s. 2d. to be payable for each extra quantity of an extemporaneously dispensed liquid supplied in more than one container (see C. & D., August 16, p. 137) is being issued to all chemist contractors.

Trade with Soviet Bloc

FEWER ITEMS ON EMBARGO LIST

AS announced in Parliament recently (see C. & D., August 16, p. 162), the number of items whose export was wholly barred by the fifteen nations represented on C.O.C.O.M. (the Committee of North Atlantic Treaty Organisation dealing with Communist has been substantially cut and twenty-five items which were subject to quantitative control have now been freed from all restrictions. Among the goods which can now be freely sold are most vacuum pumps, all petrochemical plant, glycols and their esters and methyl methacrylate. Speaking in London on August 14, the President of the Board of Trade (Sir David Eccles) said that the goods remaining on the embargo list (a few have also been added to it) had been cut to the bone and only those things which were vitally necessary for defence remained controlled. Among the chemicals which may not be exported to the Soviet bloc combines and China are: Boric acid; hydrazine hydrate, unsymmetrical dimethyl hydrazine, hydrogen peroxidentification. lithium compounds, picric acid and halogenated silicone fluids. The full list is published in the Board of Trade Journal, August 15.

Although Mr. Sinclair Weeks (United States Secretary of Commerce) announced in Washington on August 14 that "significant changes" were being made in U.S. export controls as a result of the above agreements, it is generally expected that the United States will continue to maintain stricter

embargoes than any other country. Other officials said it would be two to three months before the new American list was completed. They added that, conceivably, it would be larger than the new international list of 120 embargoed items and about 35 items on the "watch" list. Officials, too, made little attempt to hide the fact that the United States agreed to the revised embargo list with some reluctance.

Asked why the United States had to delay a decision on a new list of embargoed items while Britain announced her new list, officials said that Britain did not have such an extensive list or the same variety of exports. They added that Britain was not an exporter of metals and minerals, for instance, so their task was easier. In Paris, officials and sales directors reported that trade with Russia had expanded rapidly in recent months and that the easing of the restrictions could only be a small stimulus.

Retailers' "Pools" Plan

ENTRIES MADE FOR CUSTOMERS

THE National Union of Small Shop-keepers is preparing a scheme under which shopkeepers are to make football pool permutation entries for their customers free of charge. The Union's executive committee was told on August 17 that details were being discussed with a large pools company. The scheme is part of a campaign "to halt the drift from small shops to the larger stores." The scheme envisaged is that shop-keepers would invest in permutation entries a certain sum each week in proportion to the turnover of the shop. For example, a penny entry could be made for every 5s. That would give a block of 400 penny lines for a week's turnover of £100. The shopkeeper would pay, customers would be given vouchers, and if a prize of £75,000 were won it would be divided into 400 units of £187 each, a customer receiving one prize unit for every 5s. spent at the shop.

Thermal Insulation

STANDARDS FOR INDUSTRIAL BUILDINGS

CERTAIN new industrial buildings or extensions begun after January 1, 1959, will come within the scope of the Ther-

mal Insulation (Industrial Buildings) Act, 1957, the object of which is to prevent unnecessary loss of heat through the lack of adequate insulation and so attain greater fuel economy. The Thermal Insulation (Industrial Buildings) Regulations (S.I. 1958 No. 1220) prescribe the standard of insulation against heat loss and require the thermal transmittance coefficient of the roof of an industrial building must not exceed 0.3. Boiler houses or buildings in which the heating is derived entirely from manufacturing processes are exempt from some sections of the Act as are open sided buildings and buildings where processes are carried out which involve explosive substances and where there may be justification for keeping a light roof structure in order to provide relief from any explosion. The Act provides a right of appeal to the Minister of Power against the decisions of the Local Authority who is to administer it.

Wellcome Fellowships

AID FOR RESEARCH

THE Council of the Pharmaceutical Society has awarded Wellcome Pharmaceutical Research Fellowships to the following: Mr. George Wilfred Lynn James, Swansea (to continue research in the department of pharmacology,

SIGN OF A PHARMACIST



A distinctive feature of the pharmacy of Mr. R. H. Moore at 29 Belvedere, Lansdown Hill, Bath, is the Victorian iron lamp illustrated. It has blue glass roundels mounted in panels of red glass, and clear glass in the corner panels. On one face is "Thomas Chemist"; a second bears the legend "Established 1846"; and on the third, which is broken, is the word "Pharmacy."

University of Wales); Mr. Brian John Meakin, Leicester (to continue research at Leicester College of Technology and Commerce); Miss Shirley Anne Patricia Price, Harrow, Middlesex (to undertake research in the department of pharmacology of the School of Pharmacy, University of London).

Experiments on Animals

HOME OFFICE REPORT FOR 1957

EXPERIMENTS on living animals carried out by 5,762 persons holding Home Office licences totalled 2,905,460 during 1957 or 114,520 more than the year before. The figures are given in the annual return (Stationery Office, price 6d.). Those performed under anæsthesia and ending with the killing of the animal while still under the anæsthetic totalled 37,474. In 338,412 experiments operations were performed under anæsthetics from which the animals were allowed to recover. The number of experiments not requiring anæsthetics was about 87 per cent. of the total. These were mostly inocu-

lations, external applications or the administration of drugs or toxins. Cats, dogs, horses, asscs, and mules were used 13,749 experiments—less than onehalf of 1 per cent. of all experiments. 336 licensees carried out 208,728 experiments in the course of cancer investigations which included 44,316 performed under anæsthesia. For the purposes of public health or directly for the diagnosis of disease 177,388 experiments were made, mostly involving simple inoculations. Over one million experiments were performed in the course of preparing and testing substances intended for use in the treatment of disease in man or animals, those included 990,201 experiments for the standardisation of serums, vaccines or drugs. During the year inspectors paid 1,653 visits to registered labora-tories and found that both stock and experimental animals were properly accommodated and cared for. Five cases of irregularity were fully investigated and in none was it considered there had been a deliberate infringement of the Act.

SCOTTISH NEWS Virus Research

GLASGOW UNIVERSITY PLANS

GLASGOW University is to be the first in Scotland to have a special department for the study of virus diseases. Plans have been passed for a building to house the department to be known as the Institute of Virology. The new building is to cost about £250,000 and will have lecture rooms, laboratories, and treatment rooms.

IRISH NEWS

THE REPUBLIC

Irish Drug Association

OFFICERS FOR 1958-59

RECENTLY elected officers of the Irish Drug Association are: President, Mr. P. McAuliffe, M.P.S.I.; Vice-president, Mr. A. C. Hennessey, M.P.S.I.; Treasurer, Mr. D. J. Murphy, M.P.S.I. (See also p. 187.)

CENTRES FOR SPECIAL SERUM PRODUCTS

Addresses, telephone numbers and extent of service

A REVISED list of centres holding emergency supplies of therapeutic and prophylactic agents for the treatment of anthrax, botulism, snake-bite and rabies has been issued by the Ministry of Health. In addition to anthrax antiserum for prophylactic use, small stocks are being maintained for the treatment of anthrax in patients sensitive to penicillin.

Twenty-four-hour Service

Centres with supplies of sera for the treatment of anthrax, botulism and snakebite (24-hour service):—

Newcastle-on-Tyne (Region 1): Pathological Laboratory, Cumberland Infirmary, Carlisle (Anthrax antiserum and snake-bite antivenom only), Carlisle 22332; Dispensary, Newcastle General Hospital. Newcastle 32511.

TAL, Newcastle 32511.

Leeds (Region 2): Castle Hill Hospital, Cottingham, Hull, Cottingham 47372;
Seacroft Hospital, York Road, Leeds, Leeds 648164.

Sheffield (Region 3): NOTTINGHAM CITY HOSPITAL, Hucknall Road, Nottingham, Nottingham 63361.

East Anglia (Region 4): REGIONAL TRANSFUSION CENTRE, Brooklands Avenue, Cambridge, Monday-Friday, 8.30 a.m.-5.30 p.m., Saturday, 8.30 a.m.-12.30 p.m., Cambridge 56912, all other times, Cambridge 56913.

North West Metropolitan (Region 5): Edgware General Hospital, London, Edgware 2381.

North East Metropolitan (Region 6): NORTH-MIDDLESEX HOSPITAL, N.18, day—chief pathologist, night—resident pathologist, Edmonton 3071.

South East Metropolitan (Region 7): SOUTH LONDON TRANSFUSION CENTRE, South East Sub-depôt, David Salomon House, Southborough, Nr. Tonbridge, day, Southborough 1480, night, Maidstone 4463 and 4660.

South West Metropolitan (Region 8); SOUTH LONDON TRANSFUSION CENTRE, Stanley Road, Sutton, Surrey, Vigilant 8221; ROYAL PORTSMOUTH HOSPITAL, Commercial Road, Portsmouth (snakebite antivenom only), Portsmouth 2103; †Dispensary, ROYAL SOUTH HANTS AND SOUTHAMPTON HOSPITAL (Botulinus antitoxin and snake-bite antivenom only), Southampton 26211; ROYAL VICTORIA HOSPITAL, Shelley Road, Bournemouth (snake-bite antivenom only), Boscombe 35201.

Oxford (Region 9): NORTHAMPTON GENERAL HOSPITAL, Northampton 4680: ROYAL BERKSHIRE HOSPITAL, Reading 81721.

South Western (Region 10): Ham Green Hospital, Bristol, Pill 31165; pathological department, Royal Devon and Exeter Hospital, Exeter, Exeter 73519 and when laboratory closed Exeter 72261.; Scott Isolation Hospital, Plymouth, Plymouth, Plymouth 64311; pathological department, Royal Cornwall Infirmary, Truro, Truro 3081.

Wales (Region 11): Cardiff Isolation Hospital, Cardiff, Cardiff 21466; West Wales General Hospital, Glangwili, Carmarthen (Botulinus antitoxin and snake-bite antivenom only), Carmarthen 6733; Aberystwyth General Hospital (Botulinus and snake-bite antivenom only), Aberystwyth 374; Caernarvon and Anglesey General Hospital, Bangor (Botulinus antitoxin and snake-bite antivenom only), Bangor 1181; Maelor General Hospital, Wrexham, Wrexham 3512. Birmingham (Region 12): Dispensary,

Birmingham (Region 12): Dispensary, SELLY OAK HOSPITAL, Birmingham, Selly Oak 1361.

Manchester (Region 13): Dispensary, Manchester Royal Infirmary, Ardwick 3300.

Liverpool (Region 14): FAZAKERLEY HOSPITAL, Longmoor Lane, Liverpool, 9, Aintree 2342.

Anthrax-Daytime Service

Centres for anthrax antiserum for use prophylatically (available during the day-

Newcastle-on-Tyne (Region 1): Public

Health Laboratory, Institute of Pathology, GENERAL HOSPITAL, Westgate Road, Newcastle, 4, Newcastle 38811.

Leeds (Region 2): PUBLIC HEALTH LABORATORY, 16 Edmund Street, Bradford, 5, Bradford 24314; PUBLIC HEALTH LABORATORY, 184 High Street, Kingston-upon-Hull, Hull Central 35371.

North West Metropolitan (Region 5): CENTRAL PUBLIC HEALTH LABORATORY, Colindale Avenue, London, N.W.9, Colindale 7041.

Oxford (Region 9): Public Health Laboratory, General Hospital, Northampton, Northampton 347.

South Western (Region 10): Public health laboratory, MUSGROVE PARK HOSPITAL, Taunton, Taunton 5753.

Wales (Region 11): Public health Laboratory, INSTITUTE OF PREVENTIVE MEDICINE, The Parade, Cardiff, Cardiff 29110 and 23967.

Birmingham (Region 12): Public health laboratory, ROYAL INFIRMARY, Worcester, Worcester 5238/9.

Liverpool (Region 14): Public Health Laboratory, 126 Mount Pleasant, Liverpool, Royal 3636.

Rabies Treatment

Centres holding supplies of rabies vaccine (for active immunisation) and serum (for immediate passive protection) for the treatment of rabies:—

London: CENTRAL PUBLIC HEALTH LABORATORY, Colindale Avenue, N.W.9, Colindale 7041.

Newcastle-on-Tyne: Public health laboratory, Institute of Pathology, GENERAL HOSPITAL, Westgate Road, Newcastle, 4, Newcastle 38811.

Liverpool: Public Health Laboratory, 126 Mount Pleasant, Liverpool, Royal

Wales: Public health laboratory, Institute of Preventive Medicine, The Parade, Cardiff, Cardiff 29110 and 23967.

†This hospital also has tropical snake antivenom.

NEWS IN BRIEF

THE second report of the Cohen Council on prices, productivity and incomes is being published on August 25. It covers changes in the country's economy since September 1957.

THE pharmacy of G. F. Hird & Son, 187 Market Place, Northallerton, Yorks, founded by the present proprietor, Mr. G. F. Hird, M.P.S., is celebrating its golden jubilee.

THEFTS of morphine (gr. 40), cocaine (gr. 200), diamorphine (gr. 270), pethidine and papaverine were made from the dispensary of Royal Herbert Military Hospital, Shooters Hill, London, S.E.18, on August 15.

LEWISHAM Group Hospital Management Committee have decided to issue to their hospital workers a digest of Dangerous Drug regulations, following two thefts of drugs recently from Grove Park Hospital.

THIRTEEN final-year medical students from the University of Bahia, Brazil, were guests of the Wellcome Foundation, Ltd., on August 6. They spent two days in London as part of a European tour arranged to commemorate the 150th anniversary of the foundation of their medical school.

IN Britain's scientific section at the Brussels International Exhibition is a special model, "Mapping a Molecule—The Analysis of Vitamin B₁₂," which demonstrates the structure and use of the vitamin isolated in May 1948, by Dr. E. Lester Smith and co-workers at Glaxo Laboratories, Ltd., Greenford.

Among new members of the governing body of the recently reorganised Ashridge Trust which conducts Ashridge (the Bonar Law Memorial College) are Messrs. F. C. Bagnall (managing director, British Nylon Spinners, Ltd.); H. G. Lazell (managing director, Beecham Group, Ltd.); W. Norman (joint vice-chairman, Boots Pure Drug Co., Ltd.); and Dr. F. Roffey (a director, Distillers Co., Ltd.).

tor, Distillers Co., Ltd.).

THE Scotsman on August 16 published a ten-page supplement, "Scotland's Contribution to Medicine." Strongly featured was an article by the Rt. Hon. Aneurin Bevan entitled "Ten Years of the National Health Service," in the course of which he wrote "The deeper I went into the problem the more convinced I became that a more gradual approach would have even less chance of success than a bold and ambitious one." Dr. T. H. M. Kerfoot (president of the Association of British Pharmaceutical Industry) wrote on "Pharmaceutical Industries Contribution to Health."

SPORT

Golf.—South London and Surrey Pharmacists' Golfino Society at Dulwich and Sydenham golf club on August 13. Verona trophy, 1, M. Lewis, Shirley Park, 37; 2, D. Spier, Shirley Park, 30; 3, A. F. Reary, Coulsdon, 30. P. Thorp tankard, M. Lewis. Visitors' prizes, 1, L. Abbey, Coulsdon, 32; 2, R. Richards, Langley Park, 31.

LOCAL OFFICERS

PHARMACEUTICAL ASSOCIATIONS

Croydon.—President, D. F. S. Miles; Vicepresident, L. Toomer; Secretary, Miss A. M. McCarthy, 48 Thornton Road, Thornton Heath.

TOPICAL REFLECTIONS

By Xrayser

Public Accounts

Nothing could have been more public than the accounts published in the Press relating to the "enjoyment" by chemists of "unintended" profits on certain drugs prescribed under the National Health Service. It is not my intention to attempt to justify my position—or our position in the matter, nor to attempt to refute any of the statements of the Committee of Public Accounts. For me, that is not the point at issue in the unwelcome and unfair publicity given to pharmacy as a result of the report published on August 13. The point is that many chemists co-operated in a joint investigation to establish certain facts relating to actual prices paid for a selected list of preparations, and that the information supplied by those co-operating was of a confidential nature. I am unable to regard the use made of that information as anything other than a gross breach of confidence. What form of protest may be put forward by the chemists' representatives I have no means of knowing. But I can tell them now that I have no intention of contributing any confidential information of any kind on any future occasion, and I shall be extremely surprised if any chemist contractor acts otherwise. No attempts by the representatives of pharmacy to explain to the public are of any avail. The damageirrevocable damage—has already been done, as I have found in the pharmacy since the publication of the report. A severance of all relations would seem to be the only possible step. It is no use arguing the detail of the statements made. All future approaches for "co-operation" should meet with a blank refusal.

Bloomsbury Square

Your editorial account (pp. 169-70) of the steps leading to the acquisition by the Pharmaceutical Society of the freehold of the properties in Bloomsbury Square is of great value in outlining the alternating boldness and hesitancy of the Council. The outbreak of war altered the whole picture, and the Council's "sigh of relief" when relieved of its burden was echoed by members over the country. For reasons of sentiment, if no other, the recent purchase will bring approval, but members can scarcely fail to notice that boldness has gone hand in hand with a new accession of wealth. The first enthusiasm followed the 1933 Act, which brought compulsory membership into being, and the present step coincides with the heavy increase in membership fees. The Square has many historic associations, and none more exciting than the Gordon riots of 1780. Not all of those associations are violent, for the Square has been the residence of many outstanding citizens, literary and political. Among those who must have had an influence on pharmacy of the period was Mark Akenside, physician and poet, who lived and practised in the Square from 1749 to 1762. Akenside was the son of a Newcastle butcher and, though possessed of an arrogant manner which drew the attention of Smollett in Peregrine Pickle, he became physician to the Queen and reached prominence in his profession.

Pharmacy at Home and Abroad

The annual meeting of the Scottish Department, reported on pp. 173–74, has been made the occasion for a comparison of pharmaceutical educational requirements in most European countries. It is evident that many countries regard pharmacy as a profession calling for a university training, and that in many cases the time required for qualification exceeds that of this country. In the circumstances one would expect that a greater degree of protection would be afforded the pharmacist, and several countries appear to regard the limitation of pharmacies with no disfavour. Whether the growth of the university degree in this country, and the possible extinction of the diploma as foreshadowed by some of our educationalists, will lead to a similar limitation in this country, remains to be seen. The policy of laisser faire favoured here could easily lead to a sauve qui peut, and that seems to be a poor lookout for a highly skilled professional man who has spent years in qualifying.

COMMITTEE OF PUBLIC ACCOUNTS

Third report attacks Drug Tariff prices

A SECTION of the third report of the Committee of Public Accounts (H.M. Stationery Office. 1s. 6d.) deals, among other matters, with "Remun-eration of Chemists." The section begins by stating that chemists receive for each prescription a payment to cover the actual eost of the ingredients used in making up the prescription; an addition for oncosts of 25 per cent.; certain allowances; and a dispensing fee. The payment intended to cover the actual cost of ingredients is determined in accordance with a Drug Tariff based on wholesalers' price lists. In consequence chemists who can obtain discounts from list prices may make a profit from reimbursement at Drug Tariff rates, although the Departments had assumed when agreeing the terms of their remuneration that no such profit would accrue. The Treasury brought that possibility to the notice of the Ministry of Health in June 1954, and early in 1955 expressed the view that vigorous efforts should be made to secure for the Exchequer the benefit of any discounts the ehemists might receive, a view fully endorsed by the Committee of Public Accounts of Session 1955-56, in their sixth report. The Report now under discussion then refers to the pilot inquiry in England and Wales during May 1957, when a questionnaire covering thirty drugs—not proprietaries—was addressed to 2,370 chemists. The results . . . "afforded impressive evidence that the prices paid by chemists for most of those drugs were, on the average, well below the Drug Tariff rates"...
"for twenty-four of the thirty drugs
the results indicated that the Drug Tariff rates afforded chemists a con-cealed profit averaging 14 per eent."

In Scotland

In Scotland, the report continues, information had been assembled concerning fifteen standard drugs and fifteen proprietary preparations. A questionnaire had been addressed to fifty representative chemists about their purchases of those drugs. Answers suggested that the actual prices paid by chemists in Scotland enabled them to make a concealed profit of 19 per cent, from the Drug Tariff rates for the fifteen standard drugs and 10 per cent, from the rates for fifteen proprietary preparations. Although the chemists' representatives had quesrepresentatives had questioned the reliability of some of information they agreed to certain adjustments of the Drug Tariff rates for twenty-three of the drugs. The Committee were disturbed both by the rates of profit disclosed by those inquiries, and by the fact that chemists have continued to enjoy those unintended profits for such a long period after the Treasury had drawn attention to the matter in June 1954, So long as information was lacking eoncerning the prices actually paid by ehemists for drugs used in Health Service dispensing there could be no assurance that the remuneration of chemists was no more than fair and reasonable. The Committee therefore recommended that further inquiries should be speeded up and they considered that the results already obtained from the sample inquiries justified some immediate general reduction of the Drug Tariff.

Contractors' Spokesmen Reply

Publication by the daily Press of extracts from the Committee's report, many of them under bold and tendentious headlines such as those illustrated on opposite page, prompted the National Pharmaceutical Union in England and the Pharmaceutical Standing Committee (Scotland) to issue immediate statements to the Press. The N.P.U.'s communication was as follows:

The statement in the Third Report of the Committee of Public Aecounts of the House of Commons that chemists have been able to buy some twenty-four drugs on terms which have afforded them a "concealed profit" averaging 14 per cent. has, naturally, received widespread publicity. The eorrectness of the arithmetic on which the statement is based eannot be challenged; but the inferences which have been drawn by the Committee are very largely unjustified. In comparing the Drug Tariff price which the Ministry of Health pays and the price at which the chemist buys, no account whatever has been taken of stock losses in storage or in "breaking bulk." Further, whilst the 14 per cent. figure applies to the twenty-four drugs in question, they include the non-proprietary drugs most frequently prescribed and other evidence, secured in the same enquiry, points very clearly to the fact that, for the less frequently prescribed drugs, instead of there being a "concealed profit" there is a "concealed loss." The Public Accounts Committee states that it is disturbed that the Ministry of Health has allowed chemists to enjoy unintended profits for a period of years. The Ministry of Health and Treasury officials are, of course, well aware that the simple arithmetic of the inquiry into Drug Tariff prices does not pre-sent the whole picture.

From past experience, we know that both of those Government Departments are extremely diligent in their investigations and negotiations affecting National Health Service pharmaceutical service payments. Had the facts been as simple as the Public Accounts Committee has assumed them to be, it is certain that the Ministry would, before now, have adjusted their payments to chemists. No such general adjustment is however justified. Indeed, the further evidence currently being collected on the costs of providing the N.H.S. dispensing service will, we believe, show that chemists are being underpaid.

H. NOBLE, Secretary Central N.H.S. (Chemist-Contractors) Committee. The Scottish memorandum, after establishing the credentials of the Committee in issuing it, stated:—

Some time ago, the Department of Health indicated that the large quantities of certain drugs used in N.H.S. dispensing might entitle chemists to a discount on buying and they asked for the Standing Committee's co-operation in determining the quantities now being bought by the average chemist. The chemists agreed to co-operate, in the knowledge that, if the results showed that larger quantities were being used, the prices in the Drug Tariff would be lowered to take account of the reduced rates. Out of the 7,000 drugs and proprietaries to which the principles of the Drug Tariff apply, the Department chose fifteen standard drugs and fifteen proprietaries which, in their opinion, were commonly bought in large quantities. After a thorough examination by the Pricing Bureau of the quantities used in N.H.S. dispensing, it was agreed to adjust the prices of nine standard and fourteen proprietary preparations. It will be seen therefore that the agreement to adjust the Drug Tariff rates for twenty-three drugs had no connection with the reliability of certain information submitted at a later stage by the Department of Health on the cost price of drugs.

Regarding these cost prices, the chemists' representatives suggested a method by which the information could be obtained from the manufacturers' price lists. The Department however insisted on sending a questionnaire form to a sample of fifty chemists in spite of a warning that the resulting information might be very difficult to interpret and in many cases would be misleading.

Thirty-nine replies were received, some stating wholesale prices, others retail prices and some allowed several interpretations to be made of the prices and quantities involved. The price information appears to have been accepted at face value and was assembled unilaterally by the Department of Health, and, on this information, calculations were based. It must then have been submitted to the Treasury and the Committee of Public Accounts regardless of an offer by the chemists' representatives to check the figures, and despite an agreement to discuss the results at a meeting to be held early in September.

On the subject of discounts obtainable, the following facts were extracted by the Department of Health—11½d. discount obtained on standard drugs costing £358 and £8 discount on proprietaries costing £584. If the thirty preparations examined had been representative of the Drug Tariff (which in fact they are not) the measure of profit accruing to the chemists by discounts would be less than 1 per cent.

Sir Hugh Strikes Home

Sir Hugh Linstead (a secretary of the Pharmaceutical Society) in a letter to *The Times*, August 16, described the Committee as: "Essentially a blunt in-



VILLAINS OF THE PIECE: The daily Press with virtual unanimity seized on those paragraphs in the report of the Committee of Public Accounts which, by criticising the Ministry of Health for not making certain changes in Drug Tariff prices, by implication portrayed contractors as receiving more public money than they should.

strument—a bludgeon rather than a rapier. Surveying as it does the accounts of all the departments, its criticisms can rarely be founded on a profound study of any one subject. Its procedure too has the inherent weakness that its duty is primarily to examine the accounting officers of the departments; only comparatively rarely does it examine outside witnesses. Thus if a discrepancy between an estimate and the final cost of a contract is under discussion, the people who may be most concerned—the architects, engineers, or contractors themselves, for example—may have no opportunity of putting their own case to the committee.

The moral of this is that a particular

responsibility rests on the Committee to choose with care the wording employed in its reports, and to temper criticism with the reflection that it may have heard one side of a case only. In its third report last year, it directed strong criticism against certain individuals about the cost of the Jodrell Bank radio telescope. This criticism, the Commit-

tee now recognises, was based on 'evidence... gravely inaccurate and misleading.' It could fairly have added what is now clear, that it was also inadequate to effect a just assessment.

inadequate to effect a just assessment. In the pharmaceutical field, the Committee has from time to time had strong things to say about the cost of medicines to the National Health Service. Yet it has never, so far as I am aware, summoned as witnesses before it the manufacturers of those medicines and questioned them at first hand. Another instance occurs in its current report in relation to the remuneration of chemists. There are references to 'concealed profits' and to 'unintended profits' made by those able to buy at more advantageous prices than those in the official drug tariff.

The report maintains that 'the Departments had assumed when agreeing the terms of their remuneration that no such profit would accrue.' Even if the Committee were told that in evidence by the Departments, one cannot understand how the most elementary

knowledge of business allowed them to accept and endorse it. It is well known that some chemists are at the same time manufacturers, wholesalers and retailers. Is it really suggested that the Ministries and the Treasury have not realised until now that such firms have always been able to obtain drugs at a substantially lower price than the pharmacist with one pharmacy? Any informed witness from outside the Departments could have told the Committee that the situation has been known to and accepted by the Ministries ever since the days of the National Health Insurance Act. It is therefore ungenerous and inaccurate to refer to concealed profit,' as if the chemist was engaged in some underhand transaction."

Sir Hugh concludes by urging his colleagues who serve on the Committee to maintain the weight and authority of their reports by making fuller use of their powers to summon witnesses from outside the departments before pronouncing judgment in such cases.

LEGAL REPORT

Camera Injunctions Sought

THE Bell & Howell Co., Chicago, has filed suit against DeJur Amsco Corporation, Long Island. New York, for infringement of Bell & Howell patents relating to "electric eye" cine cameras. A complaint was filed in the United States district court at Chicago in July alleging infringement of U.S. Patent Nos. 2,365,806 and 2,841,064 by the automatic-exposure control mechanism of the DeJur Electra 8-mm. cine camera. The suit secks an injunction to halt both manufacture and sale of the camera, plus damages and costs. In December 1957 Messrs. Bell & Howell filed a suit against Revere Camera Co., Chicago, alleging infringement of U.S. Patent No. 2,365,806. Recently a supplemental complaint was filed in that suit alleging that the Revere design also infringed U.S. Patent No. 2,841,064. That suit is due for trial in December.

COMPANY NEWS

Last year's figures in parentheses

VENESTA, LTD. — Mr. Stanley Field has been appointed chairman of the company.

JEYES-IBCO SALES, LTD. — Mr. W. I. Sibbald has been appointed marketing director from October 1.

JOHN DALE, LTD.—Mr. R. W. D. Carr relinquished his directorships and appointments with John Dale, Ltd., and its subsidiary companies on August 11.

BEECHAM GROUP, LTD.—In giving details of its improved takeover offer in a letter sent out to Thomas & Evans's shareholders (C. & D., August 16, p. 164), the Beecham group states its turnover in the first three months of the financial year rose by more than 10 per cent.

ASHE CHEMICAL, LTD. — An extraordinary meeting is called for September 11 to alter the company's articles and empower the board, for a limited period, to sell holdings of less than fifty shares on behalf of holders, in view of various problems arising from such holdings. In giving four weeks' notice of the meeting, it is pointed out, holders who wish to make their own disposal arrangements, or to increase their holding to fifty shares or more, are given the chance to do so.

NEW COMPANIES

P.C.=Private Company; R.O.=Registered Office RESYN (PHENOLICS), LTD. (P.C.).—Capital £2,500. To carry on the business of manufacturing, dispensing and analytical chemists and druggists. etc. Directors: Alfred J. Buck and Mildred E. Buck, R.O.: Newlands, Parker Lane, Mirfield.

LENBROOK CHEMICALS, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in chemicals and pharmaceutical products. Subscribers: G. L. Law and R. Lund. Solicitors: Slaughter & May, 18 Austin Friars, London, E.C.2.

HAIRVAC CO., LTD. (P.C.). — Capital £100. To carry on the business of manufacturers of and dealers in toilet requisites, etc. Directors: Charles

R. Soper and William J. Morgan. R.O.: 46 Upper Maudlin Street, Bristol.

GEORGE A. HATT, LTD. (P.C.).—Registered in Edinburgh. Capital £5,000. To carry on the business of retail chemists and druggists, opticians and dispensers, etc. Directors: G. A. Hatt, M.P.S., and C. Hatt. R.O.: 67 High Street, Bunchary.

J. CLAYTON. SONS & CO., LTD. (P.C.).—Capital £1,000. To carry on the business of wholesale or retail chemists, etc. Directors: Joseph J. Clayton, Veronica M. Clayton and Edwin N. Howarth, M.P.S. R.O.: 26 Winckley Square, Preston.

CHAPERLIN & JACOBS, LTD. (P.C.).—Capital £100. To carry on the business of manufacturing, research dispensing and analytical chemists and druggists, etc. Directors: Edward L. Chaperlin and John L. Jacobs. R.O.: 40 Oxford Street, London, W.1.

BERNARD LABORATORIES, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in chemicals, gases, drugs, medicines, etc. Directors: Harry Conn, Harry H. Croft, Bernard J. Cowan and Frank E. Gettleman. R.O.: 239 East India Dock Road, E.14.

LEON MILLER & CO., LTD. (P.C.).—Capital £100. To carry on the business of retail and wholesale chemists and druggists, etc. Subscribers: Jason Gilmont and Michael S. Iacovou. The first directors are to be appointed by the subscribers. R.O.: 37 Gerrard Street. London, W.1.

LOVELOCK WRIGHT & CO., LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in resins, chemicals, etc. Subscribers: Alfred Wright and Edward J. R. Lovelock. Solicitors: Martineau & Read, 8 Princes Street, London, E.C.2.

M. APPLEYARD, LTD. (P.C.). — Capital £500. To carry on the business of manufacturing, consulting and general chemists, etc. Subscribers: Mrs. M. Appleyard and D. Nolan, M.P.S. The first directors are not named. R.O.: 602 Great Horton Road, Bradford.

J. K. TAYLOR (CHEMIST), LTD. (P.C.).—Capital £3,000. To acquire the business of a retail chemist and optician carried on by J. K. Taylor at Brimington, near Chesterfield, and at Darley Dale, near Matlock, etc. Directors: John K. Taylor, M.P.S., and Ruth M. Taylor. R.O.: 1 High Street, Brimington, Chesterfield.

POROSAN (D.I.Y.), LTD. (P.C.).—Capital £100. To enter into an agreement with Porosan, Ltd., and Walter H. Engel, to acquire any interest in patents, and the like, and to carry on the business of general traders, etc. Directors: Walter H. Engel, Herbert J. Wells. R.O.: 103 Cannon Street, London, E.C.4.

GRAHAM KEITH (CHEMICALS & EXPORTS), LTD. (P.C.).—Capital £1,000. To carry on the business of wholesale, retail, export and import chemists and druggists, etc. Directors: Daniel J. Quastel and Alphonse G. Glazebrook (directors, Graham Keith Co., Ltd.) and Iris Quastel (director,

Monument Grocery, Ltd.). R.O. 21 Red Lion Street, London, W.C.1.

L. H. LLEWELLYN (WHOLE-SALE), LTD. (P.C.).—Capital £2,000. To carry on the business of manufacturing and dispensing chemists and druggists, etc. Directors: Douglas H. Perrett, M.P.S., Marjory Perrett and Ruby W. Bond (directors, L. H. Llewellyn, Ltd.), R.O.: 15 Penel Orlieu, Bridgwater, Somerset.

TRETOL (SCOTLAND), LTD. (P.C.).—Registered in Edinburgh. Capital £100. To carry on the business of manufacturers of and dealers in chemicals, gases, drugs, medicines, plaster of Paris, etc. Directors: A. B. Oliphant, W. L. Geo, Mrs. S. Trisk, W. Bell and J. Hurst. R.O.: 65 Renfield Street, Glasgow, C.1.

UGIE HOUSE, LTD. (P.C.).—Registered in Edinburgh. Capital £5,000. To carry on the business of assisting a medical practitioner or group of medical practitioners in his or their work; to co-operate in and work for the National Health Service in any manner, etc. Directors: Dr. J. P. Milne, Dr. J. L. Taylor, N. C. Sharp and J. S. Simmers. R.O.: Ugie House, Keith, Banffs.

DIANA DORS COSMETICS, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers in shampoos, cosmetics and beauty preparations of all kinds, etc. Directors: Diana M. Hamilton (known as Diana Dors) and Leonard J. Milne (a director, Universal Distributing Co., Ltd., etc.). R.O.: 26 Conduit Street, London, W.1.

NEW CONSTRUCTIONS, LTD. (P.C.).—Capital £100. To promote and foster the use of modern materials and methods of construction and their functional and economic application to chemical and building projects of all kinds, etc. Subscribers: Doreen S. Arnold and Leonard J. Mison. The first directors are not named. Solicitors: Evans Baker & Co., 8 Queen Anne Street, London, W.1.

INDUSTRIAL GERMICIDES, LTD. (P.C.).—Capital £1,000. To acquire the business of a manufacturing chemist carried on by George H. Muddimer at 10 Central Avcnue, Leicester; to carry on the business of manufacturers of and dealers in pharmaceutical and chemical preparations, insecticides, etc. Directors: George H. Muddimer, George R. Goodman and Margaret R. Howe. R.O.: 224 Humberstone Road, Leicester.

BUSINESS CHANGES

BOOTS, LTD., opened a new store in High Street, Northwich, Ches, on August 14.

MR. WILLIAM STEWART, M.P.S., 41 Roseburn Terrace, Edinburgh, 12, retired from business on August 18.

METEMICALS (CANNON), LTD., have removed to 60 Cheapside, London, E.C.2.

THAWPIT, LTD., Woodstock Grove, Shepherds Bush, London, W.12, have acquired the business of Coliclean, Ltd.

DR. M. A. PHILLIPS & ASSOCIATES and SOUTHERN CHEMICAL

PLANT CO., LTD., have removed to 9 Western Road, Romford, Essex (telephone: Romford 46992).

Appointments

TRUFOOD, LTD., 113 Newington Causeway, London, S.E.1, have appointed Mr. G. J. Fleming their representative in Scotland.

PERSONALITIES

DR. J. T. W. MANN, who has been appointed head of research and de-



velopment of Huffer & Smith, Ltd. (see C. & D., August 16, p.163), was formerly in charge of search and development at the Fulham factory of Whiffen & Sons, Ltd., where he had been employed since 1931. He is a member of the Society

Chemical Industry and a Fellow of the Chemical Society. In 1926 Dr. Mann was awarded a Kitchener scholarship for university studies.

MR. PHILIP McAULIFFE, M.P.S.I., who has been elected president of the Irish Drug



Association in succession to Mr. F. J. Robinson, is a native of Fermoy, co. Cork. He began his apprenticeship in pharmacy with the late J. J. Broderick, Fermoy; from there he went to Lesters, Skibbereen, and then

een, and then to Roches in O'Connell Street, Dublin, from which he qualified as a Licentiate of the Society in 1932. Two years later he opened his own pharmacy at Sandy-



Mr. Philip McAuliffe, M.P.S.I., the new I.D.A. president, at the door of his pharmacy at 93 Sandymount Road, Sandymount, Dublin.

mount Road, Dublin. Mr. McAuliste has served on the committee of the I.D.A. since 1946. During the British Pharmaceutical Conference held in

Dublin in 1956, Mr. McAuliffe did excellent work as chairman of the transport Committee. His wife designed the Conference badge. He is an active member of the Irish Chemists' Golfing Society and was captain in 1948. Mr. McAuliffe, at the musical entertainment following the golf outings, is much in demand as a first-rate contributor of humorous songs, monologues and stories.

MR. STANLEY FIELD who succeeds Mr. Henry Rutherford as chair-



Mr. S. Field

man of Venesta, Ltd. (see p. 186), was senior partner of W. N. Middleton & Co. from 1948 to 1953, at the same time acting as financial and general advisor to a number of industrial concerns. In 1953 he became managing direc-

tor of the Prestige Group, Ltd., and shortly afterwards a director of the parent company, Ekco Products of Chicago. Two years later Mr. Field became a director of Venesta and in February he relinquished his directorships of Prestige and Ekco Products to become deputy chairman of Venesta. MR. RUTHERFORD, who has relinquished the chairmanship on medical advice, has been created the company's first honorary president, in recognition of his fifty years' service.

BIRTH

O'ROURKE.—At Ardenlee Nursing Home, Belfast, on August 5, to Catherine, wife of Mr. T. I. O'Rourke, M.P.S.N.I., 14 Duncoole Park, Belfast, a daughter. Mrs. O'Rourke is also a pharmacist.

MARRIAGES

GIBB—CAMPBELL. — At Bloomfield Presbyterian Church, Belfast, on August 13, Mr. James M. Gibb, M.P.S.N.I., 14 Irwin Crescent, Belfast, to Miss M. E. Campbell, 152 Upper Newtownards Road, Belfast.

WEIR—ORR.—At Cooke Centenary Church, Belfast, on August 16, Mr. W. N. D. Weir, Mounthamilton, Cloughmills, co. Antrim, to Miss Margaret F. F. Orr, M.P.S.N.I., 31 Haypark Avenue, Belfast.

MILLICAN—ELLISON. — At St. Barnabas Church, Bromborough, Wirral, Ches, on August 16, Geoffrey Roy Millican, M.P.S., 17 Rutherford Road, Liverpool, 18, to Barbara Ellison, 2 High Street, Bromborough.

DEATHS

BAILEY.—On July 13, Mr. Herbert Norris Bailey, M.P.S., The Limes, High Street, Bletchingly, Surrey, aged sixty-seven.

BROWNING.—On July 13, Mr. Edward Alfred Browning, M.P.S., Maisemore Court Cottage, Maisemore, Gloucester, aged sixty-four.

FILLINGHAM.—On August 13, Mr. Bryan Fillingham, F.P.S., 42 The Chase, Coulsdon, Surrey, aged seventy-five. Mr. Fillingham was in business at 80 Westgate, Grantham, Lincs, for about forty-five years until he retired a year ago. He had been in poor health for many months. He took an active interest in the affairs of the town while living in Grantham and held a post unusual for a chemist, that of chairman of the Grantham Licensed Victuallers' Association for about twelve years until 1947. His interest in the association arose from the lengthy ownership by members of his family of the George Hotel, Grantham, and when he ceased to be chairman he was invited to become life president. When he declined he was elected president for the subsequent year. He also became an honorary life member of the association.

GREAVES.—On August 3, Mr. Donald Allan Greaves, M.P.S., 149A Greenford Road, Harrow, Middlesex. Mr. Greaves qualified in 1932.

GREY. — At the Royal Sussex County Hospital, on August 16, Mr. N. W. Grey, 1 Hornby Road, Lower Bevendean, Brighton, 7. Mr. Grey represented Paines & Byrne, Ltd., in the counties of Sussex, Hampshire and Wiltshire.

GUTHRIE.—Suddenly, on August 12, Mr. Andrew Guthrie, M.P.S., Balmoral Cottage, Duclage Road, Crieff, Perthshire, aged thirty-eight. Mr. Guthrie was a relief manager for Boots, Ltd., in Perth, and was in his home town relieving the Crieff branch manager, when he died. He served his apprenticeship in Crieff and was employed in Edinburgh, Dundee and Perth. He served in the R.A.F. during the 1939-45 war.

HODGKINSON.—On July 16, Miss Ethel Hodgkinson, for many years chief pharmacist at the Prince of Wales's General Hospital, Tottenham, aged eighty-two. Miss Hodgkinson was an active member of the National Association of Women Pharmacists, serving for five years as secretary and twice holding office as president. At one time she was a member of the council of the Guild of Public Pharmacists.

HUGHES. — On August 4, Mr. Robert Ferguson Hughes, M.P.S., Clenisla, Maitland Street, Leven, Fifeshire, aged eighty-six.

JOLIOT-CURIE.—On August 14, Professor Frederic Joliot-Curie, aged fifty-eight. Professor Curie and his wife Irene, who died two years ago, after a lifetime of work on radium, won the Nobel Prize in 1935 after discovering artificial radioactivity. His wife was the daughter of Piere and Marie Curie, the discoverers of radium.

PINSON.—At his home in Shake-speare Street, Coventry, on August 16, Mr. William Pinson, M.P.S., aged sixty-two. Mr. Pinson had been in business in Coventry for thirty-eight years, his pharmacy being at 279 Harnall Lane

YEOMAN.—On August 3, Mr. Cyril Yeoman, M.P.S., Adamton, Elmwood Road, Herne Hill, London, S.E.24, aged seventy-seven.

TRADE NOTES

Now Tax-free. — After negotiations with the Customs and Excise. Riker Laboratories, Ltd., Loughborough, Leics. announce that Ferroids became exempt from purchase tax on August 20.

Christmas Showroom.—Saville Perfumery, Ltd., Rickmansworth Road, Watford. Herts, are showing their Christmas range at the Queen's Hotel, Leeds, September 1–4 (from 9 a.m. to 11 p.m. each day).

Large-size Pack. — Within a few months of entering the bird-food market, Petfoods, Ltd., Melton Mowbray, claim that their product Trill has become the largest selling packeted bird seed. Indications of a demand for an additional large pack have been met, and a new large carton (twenty-four to a case) is now available.

Leverkusen Specialities.—The pharmaceutical department of Farbenfabriken Bayer, A.G. (F.B.A.), Leverkusen, Germany, announce that F.B.A. products available immediately, through the sole distributors in Great Britain, Levenedic, Ltd., Bedford Row, London, W.C.1, include Dolviran analgesic, Incidal antihistamine; Marbadal C vaginal tablets; Refagan antipyretic with anti-allergic; Badional Gel sulphonamide-based bacteriostatic wound film; and Iversal buccal antiseptic lozenge.

Change of Source.—Thawpit, Ltd., Woodstock Grove, Shepherds Bush, London, W.12, announce that Coliclean which they have taken over (see p. 186) is being packed in an improved tube designed to give prolonged shelf life and eliminate difficulties previously experienced. The product continues to be marketed as Coliclean and is being manufactured at the company's new High Wycombe factory, though correspondence and inquiries should be addressed to Woodstock Grove.

Call for Tenders.—The Ministry of Health, Colombo. Ceylon, is seeking tenders for a list of pharmaceuticals, medicines and drugs, the closing date being October 28. Particulars can be obtained from the Export Services Branch, Lacon House, Theobalds Road, London, W.C.1 (reference E.S.B./20284/58.—The Iranian Tobacco Monopoly Institute, Teheran, Iran, require 15 tons gum acacia (reference E.S.B. 20367/58) and ask for "adequate samples to be sent for testing purposes." Closing date is October 7.

Chymotrypsin Pack.—The Armour Laboratories (Armour Chemical Industries, Ltd.), Hampden Park, Eastbourne, follow their recent advice regarding the introduction of Chymar-Zon for zonulolysis (C. & D., July 26, p. 93) with the information that the pack is a presentation of one vial of Chymar-Zon (alpha chymotrypsin), 100 Armour units; one vial of 1 mil of Ringer's solution (compound sodium chloride injection, B.P.) for reconstitution; and one vial of 1 mil of Ringer's solution (compound sodium chloride injection, B.P.) for irrigation. Messrs. Armour point out they introduced alpha chymotrypsin to the medical profession in this country in Novem-

ber 1956 as a suspension in sesame oil under the name Chymar. The pack was replaced in December 1957 with Chymar lyophilised, and recently Chymar-Zon was launched for zonulolysis.

Recrystallised Menthol. — Pure recrystallised menthol conforming to the requirements of the British and other pharmacopæias and manufactured by Dragoco, Holzminden, Germany, is being offered by the British agents: Bruce Starke & Co.. Ltd., 5 Fenchurch Street, London, E.C. Packings are usually in cases of ten or twenty 5-lb. tins, though other packs can be provided. The product is claimed to have ten times the cooling effect of a d menthol of a synthetic quality.

Weight on Carton.—In accordance with an announcement made recently by the Society of British Soap Makers, Thomas Hedley & Co., Ltd., Newcastle-on-Tyne, 3, are making immediate arrangements to have the net weights printed on the packets of their soap powders, detergent powders, scouring powders and soap flakes. On each packet is being indicated the average net weight of contents at time of packing. First supplies of newly printed cartons for some brands should begin to reach dealers in a few weeks' time.

Given a Trade-mark Name.—Boots Pure Drug Co., Ltd., Station Street, Nottingham, announce that they have given their neomycin ointment, Boots and neomycin eye ointment, Boots, the names Nivemycin ointment and Nivemycin eye ointment. There are no changes in the formulas. Two new products have been added to the range: Nivemycin tablets (each containing 0.5 gm. of neomycin sulphate, B.P.) in bottle of twenty; and Nivemycin lotion (a non-greasy preparation containing 0.5 gm. of neomycin sulphate, B.P. in 1-oz. plastic applicator-bottle).

Display Prize-winners. — National first prize (£600) for the best display in a Lucozade window display competition organised among chemists in Great Britain and Northern Ireland by Lucozade, Ltd., Great North Road, Brentford, Middlesex, went to Mr. A. Davison, M.P.S., 2 Birdsall Row, Redcar, Yorks. Shirtliff, Smith & Co., 2 Station Parade, Ealing Common, London, W.5, were the winners of the National second prize (£200) and the four area first prizes (£100) each were won by L. Todd, Ltd., 68 Lord Street, Blackpool; N. Hyman, M.P.S., 68 Roundhay Road, Leeds, 7; R. J. Powell, 384 Lordship Lane, London, N.17; and Southampton Co-operative Society, Ltd., 122 St. Mary's Road, Southampton. The four area second prize-winners received £50 each, and fifty consolation prize-winners each received Premium Bonds.

Corticosteroid Rebate Claims. — Manufacturers of corticosteroid products announce reduced prices from August 25 or (Boots Pure Drug Co., Ltd., Glaxo Laboratories, Ltd., Pfizer, Ltd., and Upjohn of England, Ltd.) since August 18. Credits are being allowed by the manufacturers on stocks certified unsold at closing time

on August 23 or (by Messrs. Glaxo and Upjohn) August 16. Claims should be made accordingly. Special claim forms are being provided by GLAXO LABORATORIES, LTD., Greenford, Middlesex; MERCK SHARP & DOHME, LTD., Hoddesdon, Herts; ROUSSEL LABORATORIES, LTD., 847 Harrow Road, London, N.W.10; and UPJOHN OF ENGLAND, LTD.. Crawley, Sussex. Organon Laboratories, Ltd., Brettenham House, Lancaster Place, London, W.C.2, make provision for credit claim on the form notifying the price changes. The other manufacturers are Boots Pure Drug Co., LTD., Station Street, Nottingham; CIBA LABORATORIES, LTD., Horsham, Sussex; and Parke, Davis & Co., LTD., Staines Road, Hounslow, Middlesex.

Now in Display Outer. — Since August 14 supplies of Ralgex sent out by the manufacturers, Pharmax, Ltd.,



Western House, Gravel Hill, Bexley-heath, Kent, have been in display outer of six sticks. The outer is in red, yellow and black. National and local advertising campaign is continuous throughout the year.

Information on Chemical Plant. — A booklet describing its services is offered by the British Chemical Plant Manufacturers Association, 14 Suffolk Street, London, S.W.1.

Bonus Offers

ARTHUR H. Cox & Co., LTD., Brighton. Assorted pastilles. 2-gross lots at 1s. 5d. below list prices. Until September 30.

PETFOODS, LTD., Melton Mowbray. Trill bird food. Large size. Two packets free in each case of twenty-four during an introductory period.

Warrick Brothers, Ltd., Tile Hill. Coventry. Rinstead pastilles. Twelve charged as eleven on 3-doz. lots.

INFORMATION WANTED

The Editor would appreciate information about the following:

Snapikins (present address of maker)

NEW PRODUCTS AND PACKS

A New Strength. — The Distillers Co. (Biochemicals), Ltd., Broadway House, London, S.W.I, announce the availability of Distaquaine V-K in scored tablets each containing the equivalent of 60 mgm. penicillin-V free acid (as potassium salt). The tablets are presented in bottles of thirty, 200 and 1,000.

Penicillin with Sulphadimidine. — Eli Lilly & Co., Ltd., Basingstoke, announce the introduction of tablets V-Cil-K-sulpha brand penicillin-V potassium with sulphadimidinc. Each scored, pale-green tablet contains 125 mgm. potassium penicillin-V and 0.5 gm. sulphadimidine. The packs are bottles of twenty, 100, and 1,000 (No. 4017) tablets. Prices are identical with those of tablets penicillin-V-sulpha, Lilly. Supplies are available through the usual wholesale distributors.

Chrysarobin Cream. — A new improved cream, Chrysocreme, claimed to enhance the therapeutic qualities of chrysarobin, but with minimum staining effect, is manufactured by Carnegies of Welwyn, Ltd., Welwyn Garden City, and distributed by Savory & Moore, Ltd., Lawrence Road, London, N.15 (in Northern Ireland by Hyde & Entwistle, Ltd., Orangefield House, Castlereagh, Belfast, and in the Republic of Ireland by Constant Chemicals, Ltd., 7 Dame Court, Dublin).

Improved Lamb Dysentery Vaccine.—Burroughs Wellcome & Co., 183 Euston Road, London, N.W.I, announce the introduction of Wellcome brand improved lamb-dysentery vaccine for the protection of new-born lambs, via the colostrum, against pulpy kidney disease and lamb dysentery. Use of the new vaccine may be adapted so that the adult sheep themselves are protected against pulpy kidney disease and "struck." The vaccine, given in a dose of 2 c.c., is available in bottle of 100 c.c.

In Vasomotor Disorders. — C. H. Boehringer Sohn, Ingelheim-on-Rhine, Germany, in association with Pfizer, Ltd., Folkestone, Kent, announce that they are introducing a new product, Vasculit, to the medical profession in the United Kingdom on September 1. Vasculit is 1-(4-oxyphenyl)-1-oxy-2-n-butylamino-ethane sulphate. It is indicated in vasomotor disorders, delayed union of fractures, including fracture of the femur in the aged, intermittent claudication, hypertensive headache, post-thrombotic syndrome and ccrebral arteriosclerosis. The new speciality is available as tablets in bottles of fifty, 250 and 500 and as a liquid in 1-oz. bottle with special device for drop delivery.

Shampoo for Children.—Vine's Biocrin, Ltd., 222 Harrow Road, London, W.2, have launched a new soapless shampoo. Young Folks, specially developed for use on babies and children. Young Folks shampoo is claimed not to irritate sensitive skins or cause scalp dryness. It is packed in pastel-coloured one-shampoo sachets (blue for boys and pink for girls) with equal numbers of each in a counter-display carton containing 3 doz. sachets, and in an "econ-

omy" bottle. Stocks may be ordered on a sale-or-return basis to give a higher-than-average retail profit. Overseas inquiries should be sent to Gordon & Gotch, Ltd., 75 Farringdon Street, London, E.C.4.

Hair Cosmetic Shade.—Nowest shade in Starmist hair cosmetic, the manufacturers of which are Steiner Products, Ltd., 110 Hornsey Road, London, N.7, is "fire gold," "the autumn and winter shade de luxe."

Anti-smoking Capsules.—New to Great Britain, the Nicobrevin antismoking capsules, described as "harmless—tasteless—effective," arc available through wholesalers or direct from Miller of Golden Square, Ltd., London, W.1.

Lipstick and Nail Enamel.—Revlon International Corporation, Ltd., 86 Brook Street, London, W.1, have given the name "orange flip" to a new colour they have added to their range of lustrous high-gloss lipstick and refill, Futurama lipstick refill and regular nail enamel. The new shade, a "high-fashion, high-intensity orange," has been on sale to the public since August 18.

Electric Under-Blankets. — Morphy-Richards, Ltd., 50 Conduit Street, London, W.1, have introduced a new range



of electric under-blankets manufactured under British Standards Institute licence No. 2837. The new range, series III, conforms to B.S.I. standard B.S. 2612. Each model, fitted with a thermostat, is estimated to reach 100°F in 10–20 minutes from switching-on. The thermostats operate at the average temperature of 158°F., plus or minus 18°F. and their snap action ensures that there is no radio or television interference. Series III "Popular" is covered in a durable raised cotton twill in pink, with satin-bound edges. Its single size (48 x 26 in.) has a 91-watt loading. The double size (48 x 42 in.) has a 159-watt loading. Series III "Regent" is covered in a soft fleecy wool mixture in peach, pink or blue, with satin-bound edges. The single size (60 x 26 in.) has a 115-watt loading. the double size (60 x 45 in.) has a loading of 219 watts. The series III "Imperial" incorporates a three-heat switch; it is also covered in a fleecy wool mixture in peach, pink or blue

with satin-bound edges. The single size $(60 \times 28 \text{ in.})$ has a 124-watt loading; its 228-watt double size is $60 \times 47\frac{1}{2}$ in. The under-blankets operate on a.c. mains in 200/220 and 230/250 voltage ranges.

Lipstick "For Any Fashion Shade."
—The newest colour in lipsticks of Max Factor Hollywood and London (Sales), Ltd., 16 Old Bond Street, London, W.1, is "Censored," which is described as "not just one shade: it is too subtle to be classified." With pink it seems pink; with coral it appears coral; with red it picks up the red. It is "a lipstick every woman can wear at all times with any fashion shade." "Censored" is made in Hi-Fi in celebrity case and Color-Fast in gilt swivel case, each with refills.

Electric Blanket Range.—Recently the Warm-Glow Co., Ltd., were taken over by E. K. Cole, Ltd., Southendon-Sea, who now announce a new range of Ecko Warm-glow blankets. Press announcements will feature "scaled-in circuits" and "allover warmth" derived from the plastic waterproofing and close spacing of the heating elements. Juno, Stella and Diana models are small and large single-bed and double-bed sizes respectively in a new fleecy cotton material available in pink or blue. Of slightly larger size than previously, they are now bound on all edges with matching ribbon and are attractively wrapped in polythene bags for display with or without the carton. The new Sherborne and Dorchester blankets, for large single and double beds respectively, are woollen material with satin binding, and are available in pink, green or blue, wrapped in polythene bag, and packed in "picture frame" display carton. The Vigilux blankets (single, double and "twin" sizes) have a patented thermostatic bedside control by which the bed temperature may be adjusted from about 90°F. to 130°F.

MANUFACTURERS' ACTIVITIES

Award Winners. — This year's winners of the newly instituted Ronson awards for promising students of the Royal Academy of Dramatic Art are Susannah York, London, and Douglas Harris, Brighton. Both left the Academy last month and are now in repertory. The awards are cash prizes of £52 10s. presented each year by Ronson Products, Ltd., 352 Strand, London, W.C.2, to a promising student of either sex in their last term at

Expansion.—Yardley House, the premises specially designed and built in 1931 for Yardley & Co., Ltd., 33 Old Bond Street, London, W.1, has for reasons of expansion proved too small for present day requirements. During the past year an adjacent building has been incorporated, and the whole of the inside of Yardley House has been reorganised. At the present time the outside is being given a "face-lift," using the latest curtain-wall "treat-

ment," and an entirely new shopfront is being incorporated.

Toilet Tissue's Seventy-fifth Birthday.

—In 1883 Mr. Seth Wheeler, Albany City, New York, U.S.A., who had invented and patented machinery for "the so-called perforation of paper," made an agreement with Mr. James E. Lawson, enabling Mr. Lawson to start a business for its manufacture in the United Kingdom. Accordingly, on August 14, 1883, the British Patent Perforated Paper Co., Ltd., came into being in London, with registered offices

in Long Lane. The product was advertised as "the new perforated toilet or curling paper," and a roll of 1,000 sheets was sold for one shilling. By comparison the present-day price of 1s. 3d. for a 500 sheet roll, says Mr. E. H. Nankivell (managing director of the company) is very good value, bearing in mind the increases in the cost of living over the past seventy-five years. The thin, strong manilla tissues, made world-famous in recent years under the trade name Bronco, are the same as were, in the early days, known as "British No. 1 Thin." The

firm came under the ownership of Mr. Walter James Alcock (a great-uncle of Mr. Nankivell) and from its original home it transferred in 1908 to Hackney Wick. In the 1920's it began to manufacture the Onliwon paper towel—the first of its kind this side of the Atlantic; in 1932 the business was converted into a private limited company, which was taken over twenty-three years later by the paper manufacturers Peter Dixon & Son, Ltd., Oughtibridge and Grimsby. Thirty employees have been with the company for thirty-five years or longer.

NATIONAL HEALTH SERVICE IN 1957

Increased costs attributed to corticosteroids and larger prescribed quantities

THE high average prescription cost in 1957, which rose to 5s. 10'48d, from 4s. 11'57d. in 1956, was due partly to the fact that two further corticosteroids, prednisone and prednisolone, became available generally during February 1957 and partly to the fact that doctors were prescribing larger quantities. Those causes are brought out in the report of the Ministry of Health for 1957 (Cmnd. 495, Stationery Office, 12s.).

During the year chemists dispensed 207,209,397 prescriptions (228,879,170 in 1956) at a total cost of £60,851,903 (£56,810,940). Up to and including August 1957 prescriptions were substantially less than for an equal part of the previous year, but in September and October the Asian influenza epidemic caused an increase. For the whole year the total of prescriptions was approximately 21,600,000 below that of 1956 and the lowest figure since 1948. An

analysis of 72,596 prescriptions revealed the following pattern of prescribing:—

scribing:—
Of 7,212 samples examined under the Drug Testing Scheme during the year, 6,782 were accepted as satisfactory and 430 were referred to Pharmaceutical Services Committees. Of 406 cases in which the investigations were completed during the year, it was decided no action was necessary in fifty-one, a warning was given in 218, and in 137 money was withheld from the contractors' remuneration. The report makes reference to the start of an investigation to compare drug tariff prices with those actually paid by chemists. With the co-operation of the Central National Health Service (Chemist Contractors) Committee, a pilot inquiry was organised among 2,370 chemists, who were asked for details of their last purchase of certain drugs. The inquiry covered thirty

drugs, but no chemist was asked to give information about more than six. There was a reference to the scheme of voluntary regulation of prices of certain proprietary preparations as agreed with manufacturers in the pharmaceutical industry and the Association of the British Pharmaceutical Industry. The second table gives the breakdown of payments for pharmaceutical services in the year ending March 31, 1957:—

(a) Total gross payments to	£
pharmacists (less charges	
to patients under the	
National Health Service	
(Amendment) Act, 1949	
£7,602,210)	50,972,228
(b) Medical practitioners	
(i) Payments (less charges to	
patients under the	
National Health Service	
(Amendment) Act, 1949,	
in respect of elastic	
hosiery £684)	1,854,622
(ii) Superannuation, etc. —	72 124
executive councils' share	72,124
(c) Other payments	147
Total ···	52,899,121
Estimated breakdown of gross	
payments to pharmacists	
(i) Dispensing fees and pay-	
ments for services out-	
side hours	15,325,000
(ii) Cost of ingredients and	
allowances for con-	
tainers	34,905,000
(iii) Overheads and profit	8.345.000

In the section of the report relating to medical and hospital supplies it is noted that the pharmaceutical industry greatly increased its research and manufacturing facilities and strengthened its efficiency and competitive position in world markets in which competition was severe. Contracts placed by the Ministry of Health included £854,000 for vaccines (including poliomyelitis, influenza and B.C.G. vaccines) and £55,700 for corticotrophine. The contracts placed by the Ministry of Health for goods ordered by hospitals direct from contractors for antibiotics and hormones amounted to £1,154,000 and £764,200 respectively. The report also revealed that a cost investigation into the manufacture of plaster of Paris bandages and slabs that was completed early in 1957 resulted in a 9 per cent. price reduction.

	Percentage of total number of prescriptions			Percentage of total ingredient cost		
Therapeutic category	Proprie- taries	Non- Proprie- taries	Total	Proprie- taries	Non- Proprie- tarics	Total
Antibiotics	5.06	2.13	7.19	16.36	3.58	19.94
Sulphonamides	2.21	0.90	3.11	1.90	0.48	2.38
Insulin	0.03	0.31	0.34	0.17	2.09	2.26
Sex hormones	0.54	0.71	1.25	1.14	0.54	1.68
Other hormones (including corti-			:			
costeroids)	1.31	1.21	2.52	5.11	4.61	9.72
Barbiturates	4.28	2.82	7.10	2.26	0.50	2.76
Sedatives and hypnotics (other						
than barbiturates)	0.80	2.37	3.17	1.10	0.38	1.48
Antihistamines	2 · 33	0.05	2.38	2.27	0.05	2.32
Vitamins (except B ₁₂) single	0.63	0.74	1.37	1.00	0.43	1.43
Polyvitamin preparations		0.50	1 - 40	0.89	0.21	1.10
Haematinics (including vitamin						
B_{12})	1.64	0.75	2.39	2.72	0.30	3.02
Tonics		1.17	3.68	2.17	0.36	2.53
Analgesics (except narcotics) and						
antipyrctics		4.36	10.16	4.58	1.10	5.68
Anti-rheumatic preparations		0.90	3.37	3.28	0.31	3.59
Dangerous drugs		0.50	0.84	0.27	0.29	0.56
Cardiac preparations		2.80	4.38	2.97	1.33	4.30
Hypotensive drugs		0.01	1.15	3.16	0.02	3.18
Laxatives, antacids, etc		8.60	11.01	2.91	2.59	5.50
Anticholinergie drugs			0.90			1.70
Cough preparations		7.97				5.10
Scra and vaccines					1	0.36
Asthma preparations		1.28				3.99
Medicaments for external use	2.51					13.14
Miscellaneous	6.63	4.14	10.77	11.06	2.08	13.14
	50.69	49.31	100.00	74.73	25.27	100.00

EXAMINATION RESULTS

Successful Pharmaceutical Chemist candidates in Scotland

THE following candidates have satisfied the examiners in the Pharmaceutical Chemist Qualifying examination held by the Pharmaceutical Society in Scotland in July (†=Certificate withheld pending evidence of practical training or

age):—
Adamson, R., Retford Addicott, Margaret B., Hull Aiken, Monica M., East Barnet

Anderson, A. B., Edinburgh †Anderson, Esme F. D..

Dundee †Armour, Margaret, Sunderland Armstrong, A. G., Aberdeen Aslett, D., Leeds Atherton, D., Burnley Baker, D., Sheffield †Baxter, J. A. A., Paisley †Bell, Wilma, Earlston Bingham, Pauline, Rotherham

Bissell, R., Bolton
Black, J. S., Wick
Black, R. J., Glasgow
Bleackley, G. A., Kendal
Blenkin, Patricia M., Harrow Bockett, R. B., Southsea Bradley, Sheila B., Preston †Brewster, Thelma M., York Brice, G., Bradford

Broadhurst, P. W., Macclesfield †Brogdon, Mary L., Sunderland

Buchan, J. M., St. Combs †Buchanan, Christine, Leven Burt, Jean C., Hetton-le-Hole †Butler, Audrey P., Blackpool

†Calder, M. R., Doncaster Cheney, W. G., Gedling Clark, Catherine E., Longhorsley Cocker, W. F., Bolton Connolley, R., Accrington †Cooper, Kathleen T.,

Aberdeen

Coyle, D. N., Heywood †Cyrkler, Zofia A., Kilburn Davidson, Irene, New Deer Davidson, Hene, New Deer Davies, Joan M., Glasgow Davies, W. R., Strathmiglo †Dewhurst, E. T., Preston Dear, B. H., Southwell

†Dodds, Joyce L., Gateshead †Donaldson, A. P., Perth Dott, J. A., Dundee Drummond, D. B., Edinburgh Dunn, Irene E., Durham Durham, Helen M., Consett Dyson, Dorothy, Leeds

†Elliston, Heather M., Belvedere †Emmett, Rachel D. R., Bradford

Eustace, Margaret L., Bolton Faux, G., Hucknall Forbes, Margaret M. H., Aberdeen

Forman, D. McL., Peterhead Frearson, Grete, Gateshead †Gaunt, E. F., Ilford †Gibson, Diana E., Rosyth Gordon, Frances M., Larbert Gourley, M. S., Sunderland Graham, Dorothy M.,

Carlisle Grant, P. K., Horndean †Gray, Kathrine N., Stirling Griffin, B., Derby Harding, Elsie G., Rhondda Hargreaves, D. R.,

Lancaster †Harris, P. H., Leeds Hay, J. McL., Ayr Heath, D., Leeds †Henson, Margaret, Sunderland

Hepworth, R. N., Brighouse Holden, W. B., Chester-le-Street Hunt, Muriel F., Preston Hutt, P. G. S., Penryn

Huyton, Isabelle M., Bride Ingham, C. O., Nottingham †Iryine, J., Glasgow Jackson, W. L., Bolton Jappy, J. S., Aberdeen †Jones, J., Newburn Jones, Moira E., Port

Glasgow

Khambiye, O. M., Edinburgh Kime, J. L., Doncaster †Kitchen, Joan E., Newcastle-on-Tyne Klar, Stanley, Glasgow Langston, E. G., Dunfermline

Laurent, Doreen, Consett Leong, N. S., Sunderland Limond, Sheila C., Ayr

Kalmanovitch, E., Whitley

Kerridge, J. A., Glasgow

†Lock, Mabel, Southsea Lowther, J. R., Scotforth Lund, B., York McCandlish, F. W., Oldham

†McKerron, Christine E. T., Aberdeen

†Mackey, I. P. G., Newcastle-on-Tyne Mair, A. MacD., Dumbarton Makin, T. G., Huddersfield Marley, D. R., Cockermouth Mason, B. E., Corby †Mason, Kathleen M.,

Dewsbury Maynard, E. G. H., Wakefield Mendham, G. D.,

Rowlands Gill †Milne, W., Peterhead Morris, G. B., Sheffield †Morrison, I. H., Dundee Murray, G. S., Glasgow Nethercott, Margaret E. M.,

Saltash Newsome, R., Leeds †O'Brien, Elizabeth M., Bournemouth

†Olabisi, E. G., Fulham †Olivestone, E. M., Edgware †Oultram, D. W., Warrington Piddington, K. D., Herne

Hill †Powell, A. W., Keighley Rawsthorne, Averil P., Cheadle

Read, Janet, Doncaster †Reid, Anne I. N., Hamilton †Robbie, L. A., Bucksburn †Robinson, Dorothy C.,

Dewsbury

Robinson, Margaret, Redcar †Robotkin, F., Mile End Sale, C., Arnold Salmon, R. E., Enfield Salsbury, J. D., Long Eaton

Salsbury, J. D., Long Eaton Sampson, Shirley, Hull †Scott, N. C., Portobello Senator, D. A., Bournemouth Sharman, M. J., Cirencester Shearlaw, A. J. P., Glasgow †Silver, H. J., Golders Green

Smellie, Agnes G., Hamilton Smith, G., Wakefield †Smith, K., Edinburgh †Spearman, T. V.,

Newcastle-on-Tyne Spragg, P. W., Chesterfield Stonadge, A. H., Southampton

Sutherland, F. M., Glasgow Sutton, D. P., Burton-on-Trent

Tagoe, N. O. M., Aberdeen Tasker, Alison, Bury
Taylor, R., Manchester
Taylor, W. E., Worksop
†Thom, Miriam, Newcastleon-Tyne
Tipker, L. A. Walds Carl

Tinker, J. A., Huddersfield Tomlinson, G. W., Nottingham

Tupholme, M. E., Sheffield Twelvetrees, M. J., Chaddesden

†Usher, Maria, Wallsend Wadham, P. W., Ryde Walker, Valerie, Leeds †Wareham, Joan A., Steyning Watson, H. N., Oldham †Wells, Jean M., Llandudno Western, G. E., Penrith Whitelegg, K., Harrogate Whiteley, R. M., Morecambe †Wilkie, Joan, Hebburn †Williams, J. F. H., Ammanford Williams, R. F. P.,

Teignmouth †Wong, Rose F. C., Leicester †Wong, Y. T., Leicester Wood, Astrid G., Bradford †Wright, D. J., Blackpool Wright, J. B., Blackpool

London B.Pharm. successes

THE following were the successful candidates in the 1958 B.Pharm. of (internal) examination London University:—

First class honours, Bennett, A.; Eakins, K. E.; Newton, J. M.; Whitefield, M.

Second class honours (upper division), Barr, M. C.; Cooper, A. E.; Hone, R. E.; Hudson, Sheila P. A.; Packham, J. E.; Syms, Marion M.; Telford, J. M.; Worth, Susan B. Second class honours (lower divi-

Second class honours (lower division), Anderson, J. W.; Anson, Harriet; Bampton, Neeta M.; Battersby, G. M.; Bayless, Pamela; Clifford, Doris; Cooper, J. B.; Crellin, J. K.; Currie, M. J.; Donkin, Elsie; Hanam, J.; Heyde, Elizabeth A.; James, N. H.; James, R. M. V.; Knightly, Angela; Lehrer, D. N.; Russell, Margaret; Schneider, C.

Second class honours, Georgii, Ursula.

Pass, Baxter, R.; Cooper, D. B.; Gardner, Barbara J.; Hargreaves, Flora M.; Higgins, J. C.; Hodgson, V. C.; Howlett, J. W.; Jenkins, D. E.; Locke, G. W.; Newton, D. H.; Peck, Janet M.; Obi, R. U.; Rimer, P. W.; Sugden, J. K.; Ward, J.; Wilkinson, M. L. The above candidates were awarded

The above candidates were awarded the degree on August 12.

The following have passed in Part I, Armstrong, N. A.; Avery, R. E.; Aylett, Claire M.; Baker, Alison E.; Barrett, C. W.; Barrit, June M.; Barron, D. I.; Beaven, M. A.; Berry, Maureen A.; Brooks, J.; Brown, Jacqueline C. A.; Brown, P. J.; Buckett, W. R.; Cameron, F. G. M.; Cashin W. R.; Cameron, E. G. M.; Cashin, C. H.; Chapman, W. N. P.; Chignell, C. F.; Coulson, J. H.; Crouch, Hilary J.; Cuss, Evelyn M.; Davies, Ann D.;

Davies, L.; Dickinson, N. A.; Downes, G. F.; Downham, Margaret; Farrant, J.; Field, J. D.; Fleming, Valerie E.; Fooks, Patricia J. A.; Foster, A. A.; Frizzell, M. S.; Harris, Patricia L.; Harrison, Margaret A.; Hewitson, K.; Hobbs, Gillian M.; Karnicki, Helena Hobbs, Gillian M.; Karnicki, Helena M. T.; Kaye, G. A.; Kemplay, Marie C.; Knock, Valerie; Landor, Eva M.; Lavender, C.; Lender, Catherine A. J.; Manley, Patricia G.; Masters, B. J.; Megson, J. K. H.; Ndika, L. I. L.; Osisiogu, I. U. W.; Park, Lucille J.; Perrin, J. H.; Pugh, A. L. G.; Rawstron, C.; Roberts, A. E.; Roberts, C. N.; Rosenberg, Sally D.; Sanghvi, I. S.; Shah, M. J.; Tamakloe, V. C. T.; Wakama, W. T.; Woodward, R. J.

The following candidates were successful in the 1958 B.Pharm (external) examination of London University and

received the Degree on August 12:-First class honours, Bergman, L.;

Jaques, B.

Second class honours (upper division), Ganderton, D.; Harris, J. M.; Hunt, Hilary V.; Lester, I. H.; Shah, C. J.; Skerritt, Sylvia M.

Second class honours (lower division), Chauhan, N. M. N.; Chenoy, N.

C.; Dennis, R. P.; Green, D. M.; Gunja, Y. H.; Hind, F. J.; Taylor, K. F.

Pass, Brateh, J. S.; Evans, G.; Higgins, D.; Molokwu, P. I.; Nyländer,

Luev V. S.

The following have passed in Part I, Begley, J.; Best, R.; Dimmoek, J. R.; Draper, A. J.; English, A. F.; Foots,

D.; Forusz, S. L.; Hardy, B. T.; McDowell, Sheila M.; Matthews, B. A.; Mezzo, L.; Philipson, B. R.; Russell, Dorothy J.; Saha, K.; Sheard, D.; Smith, M. D.; Westwood, N.; Wong, Evelyn M. B.

In the University's intermediate examination in pharmaey held in July,

Patel, G. M., was successful.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Local Action on C.F.

SIR, — We have recently formed a C.F. action committee for Croydon. By means of local news-letters and coordinated displays, we aim to stimulate and assist support for the Chemists Federation in the Croydon area. We would welcome contact with similar organisations in other areas (especially in districts adjoining our own) with a view to exchanging news, views, and ideas. Either I, or Mr. A. Reary (secretary to the committee) will be glad to hear from those interested.

DOUGLAS F. S. MILES, President,

Douglas F. S. Miles, *President*, 303 Selsdon Road, Croydon Croydon Chemists' Association [Mr. Reary's address is 327 Brighton Road, South Croydon, Surrey.]

Modern Shopfronts

SIR,—To the question raised by E. C. Tenner "What is a Modern Shopfront?" (see C. & D., August 16, p. 171) my own experience may supply some of the answers. In 1947 Messrs. Maw, Son & Sons put in my present shopfront and it has paid for itself many times over. I put in sliding clear plate-glass doors in the window back, which allow the goods on display to be seen from outside and inside the shop and provide easy access for sell-ing from the window provided one does not try to erowd the window with goods. We have full daylight in the shop and the only artificial light is over the dispensing counter. At night the full shop lighting and window lighting are seen from the street. The passer-by sees not only the window display itself but also the counter and showeases in the shop. One snag is the difficulty of making speciality window dressers realise that they must not paper the window back. Another point is that an array of backs of showeards has to be avoided, if the advantages of a "double" display (i.e. facing both ways) are to be gained.

C. A. E. Moody, 203 Rotherhithe New Road, London, S.E.16

P.S.—I shall be pleased to show my windows at any time to any ehemist interested.

Education in Austria

SIR,—With reference to the survey given by Mr. Anderson and Dr. Maemorran (C. & D., August 16, p. 173) eoneerning pharmaccutical cdueation in Europe, I as a pharmacist of both Austria and Britain, have to say that, so far as Austria is concerned, the explanations are not quite correct. In my "Survey of Austrian Phar-

macy" (Pharmaceutical Journal, July 21, 1951, p. 45) and in my contribution to M&B Pharmaceutical Bulletin (September 1954, p. 101) I described Austria's cducational system under the heading "Pharmacy in Austria" in full detail. I there stated that:

1. The syllabus consists of CHEMISTRY (inorganic, organic, analytical, physical and pharmaceutical), BOTANY (systematic, physiological and anatomical), and PHARMACOGNOSY (including microchemistry and pharmacology). Examinations in those subjects are oral and practical and are grouped in two "(examina) Rigorosa." In addition, examinations in HYGIENE (including biological analysis) and PHARMACEUTICS

(galenicals) are prescribed.

2. After the entrant has passed the two Rigorosa, the degree of MAGISTER (equivalent PHARMACIÆ M.Pharm. in this country, but abbreviated "Mr. pharm." by analogy with the degree of Doctor "Dr.") is the degree of Doctor "Dr.") is solemnly conferred in the same way as the degree of Doctor. "Sponsion," as it is called, is, at each of the three Austrian Universities, Vienna, Graz and Innsbruek, the compulsory prerequisite for two years of post-graduate training. Masters of Pharmaey (in German Magister der Pharmazie) undergoing that training are described as Aspiranten, working under the supervision and responsibility of a pharmaeist (Apotheker or Apothekenleiter) and are not "improvers," but post-graduate pupils, preparing for the professional examination set by the legal pharmaceutical body known as Osterreichische Apothekerkammer. The examination is not a purely academic one, but is intended to establish the proper effect of the post-graduate training and to authorise the practice of pharmaey as a profession. Thus the eandidate has to satisfy the board of examiners in pharmaeeutical techniques, both praetically and orally, in pharmaeeutical legislation, in common and commercial law as applicable to pharmaey, and in book-keeping. Having passed that Aspirantenprüfung, the Master of Pharmacy becomes a fully qualified pharmaeist (vertretungsbe-rechtigter Apotheker), but not before five years as an employee is he entitled to undertake management, whether as owner, leaseholder or manager.

3. There is no doctorate in pharmaey, but Masters of Pharmaey, who have obtained, after successful presentation of a thesis (dissertation) concerned with botany, chemistry or pharmaeognosy, the degree of Doctor of Philosophy (Dr.phil.) are entitled to style themselves as "Dr.pharm."

Usually both degrees are indicated (in the form of Dr. phil, et Mr. pharm.), the Master degree being the compulsory prerequisitc. Thus all Austrian pharmaeists are University graduates and must hold without exception the "Mr.pharm." The additional "Dr. phil." is optional.

4. Entry to the Austrian pharmaceutical profession is via the Universities only and not only is Latin a compulsory subject of the Matriculation examination (Reifeprüfung), but so also are all other subjects required at the schools for entitlement to a Matriculation certificate.

C. J. RAWSKI-CONROY,

Mr.pharm. (Vienna) (Chief pharmaeist, Leavesden Group Hospitals)

A Typical Victorian Gentleman

SIR,—What memories came erowding back with the announcement of the death of Mr. Reid Douglas of Frazer & Grcen, chemists, Glasgow. I was eighteen when my father took me to the Charing Cross Branch of the business in 1917 to commence my duties as dispenser. Mr. Sinclair, a typical Victorian gentleman, was manager, and Miss G. MacLaren the qualified lady. She was kindness itself to me, and I often think of her. Later I was transferred to Buchanan Street. A staff of twenty took some keeping in hand, and Mr. Reid Douglas had a disconcerting habit of popping up at most awkward times. His office was beside the dispensary and nothing escaped his eagle eye. I remember he invariably wore "pepper and salt" tweed suits. Dispensing was indeed an art in those days. Upon receipt all prescriptions were copied into a ledger and the code number put on the label, and we had to repeat from memory the contents of the dispensed prescription. I enjoyed every minute of my stay with the firm. In those days, doctors really did dispense. (Mrs.) E. EDDLESTON, Leeds, 6

"Old-world" Prescriptions

SIR,—Your correspondent A. Chamings, of Ciba Laboratories, Ltd. (C. & D., August 2, p. 114) correctly surmises that my experience of European pharmacy was gained before the war (in fact pre-1920). However, some Polish physicians now practise in this part of England—and I believe in others—and here, at all events, they are prescribing "old-world" remedies regularly, with remarkable success, and at a low cost to the National Health Service.

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Discounts on Tariff Prices

ONCE more chemist contractors in the National Health Service have been headlined in the public Press in a manner most unfortunate for their good relations with the public. "Concealed profits," "unintended profits," "hidden profits" and similar lurid banners (a fair selection of them is illustrated on p. 184) must have led the public to consider chemists to be guilty of sharp practices. All who are connected with pharmacy and the pharmaceutical industry must be gravely concerned that such a misleading impression has been given by what must, to the man in the street, appear as an independent and authoritative tribunal.

The Public Accounts Committee of the House of Commons considers expenditure of all government departments. Its report, which covers thirty-two pages and refers to more than twenty separate items of expenditure, cannot but be based on a superficial knowledge of any one of the subjects it covers. The members of the Committee: Messrs. J. S. W. Arbuthnot (C.), G. Benson (Lab.), V. J. Collins (Lab.) (now a Life Peer), Colonel Crosthwaite-Eyre (C.), J. H. Hoy (Lab.), G. H. Oliver (Lab.), J. W. W. Peyton (C.), J. E. Powell (C.) (later Mr. J. E. S. Simon (C.), J. E. Ramsden (C.), T. Steele (Lab.), G. P. Stevens (C), E. Thornton (Lab.), C. N. Thornton-Kemsley (L. and C.), R. H. Turton (C.) and D. G. West (Lab.), are for the most part dependent upon information given by the respective departmental accounting officer, whose principal concern may be to try and protect his department from undue criticism. We may admire, as we have admitted in the past, the way in which permanent officials of the Ministry of Health and other Ministries acquit themselves when facing an oral examination by the Public Accounts Committee (see C. & D., January 28, 1956, p. 91). Yet we must point out that the chemist contractors have been placed in an invidious position by the interpretation put upon information given to the Committee at its recent deliberations. The problem of Drug Tariff discounts was first raised by the Treasury in June 1954. In 1955 the Treasury expressed the view "that vigorous efforts should be made to secure for the Exchequer the benefit of any discount the chemists might receive."

In its 1955-56 session, the Committee of Public Accounts endorsed that view. The Ministry of Health and the pharmaceutical negotiating committees were therefore aware that that proposition would have to be dealt with. What a pity the matter was not clarified with a firm explanation at the outset! Both the Minister's and the chemist contractors' representatives might then have insured themselves in advance against any

errors arising because the Committee of Public Accounts was insufficiently knowledgeable about the pharmaceutical industry in general and about the Drug Tariff in particular. In a letter to The Times (August 16) Sir Hugh Linstead, dealing with the statement in the third report that "chemists who can obtain discounts from list prices may make a profit from reimbursement at Drug Tariff rates although the Departments had assumed, when agreeing the terms of the remuneration, that no such profit would accrue," rightly pointed out that that situation "has been known and accepted by the Ministries ever since the days of the National Health Insurance Act." It is, of course, a commonplace that no price structure is permanent, and Drug Tariff prices no less than others must be and are subject to constant review and adjustment to circumstances. But what the Committee of Public Accounts must realise is that there will never be a situation in which chemists buy, and manufacturers supply, on so uniform a basis that a single price will give equal advantage or profit to all. If the prescribing of a product is heavy in some areas and light in others then, at any flat-price Drug Tariff rate some contractors will be relatively better off than others. If, in the areas of heavy prescribing, contractors may not buy on more advantageous terms than elsewhere then the advantage of the large single purchase passes to the wholesaler or manufacturer: it is not one that can be automatically reaped by the Government. Curiously the discount that is made to appear wicked for the chemist is accepted as legitimate for the optician, for in a circular from the Ministry of Health to the Executive Councils and Ophthalmic Services Committees it is stated:-

You will appreciate that considerable importance is attached by opticians to the prompt payment of accounts, particularly those for the supply of glasses where the optician himself makes prompt payment to his supplier to secure the usual discount. The Minister therefore hopes that all Ophthalmic Services Committees will be able to pay accounts well within a month from any closing date they may have fixed for submission of accounts.

The accuracy of the calculations regarding the "concealed profits" of 14 and 19 per cent. in England and Wales, and Scotland we are not in a position to agree or But quite apart from doubt whether the to dispute. pharmaceutical inquiry was sufficiently wide to enable any accurate deductions to be made, the Committee's strictures are based on confidential information supplied by contractors for quite another purpose, and the reaction of Xrayser (p. 183) that contractors should refuse to take part in any more such "confidential" inquiries is therefore natural and understandable, Out of the 7,000 drugs and proprietaries to which the Drug Tariff applies the Ministry chose thirty items which, in their view, were bought in quantities justifying a reduction in the Tariff rate. They had been given information obtained by both the Ministry's and the contractors' representatives on the usage of certain selected drugs so that the basic-pack sizes in the Drug Tariff could be From that narrow sample, obtained for a revised. different purpose, the Committee attempts to justify an immediate general reduction in Tariff prices.

Some time ago (see C. & D., December 3, 1955, p. 637) we urged that it was high time the Ministry adopted a more worthy attitude towards its contractors, standing by them and if necessary resisting the Treasury in its more unreasonable demands. We now extend that injunction so as to make it apply to the Ministry's relations with the Committee of Public Accounts.

Fourth Fall in Bank Rate

At $4\frac{1}{2}$ per cent, the bank rate is now back to the level which operated for a year from February 1955. Since September 1957, when the rate rose to 7 per cent., the process of borrowing money has been an expensive one, and even though the country's financial position improved so that it was possible to permit reductions in the rate to 6 per cent. in March, in May to $5\frac{1}{2}$ per cent., and in June to 5 per cent., only now is the rate low enough to make money borrowing attractive for commercial development.

Most industries in Britain at the present time have considerable productive capacity unemployed, a position brought about to a large extent by the Government's monetary policy. To push that policy still further is now unnecessary and undesirable. The chemical and pharmaceutical industries have naturally felt the restrictions, but by their successful efforts in finding new markets overseas in the past few years, and by their expansion programme in bringing out new products, those industries have not suffered to the same extent as some others.

If the present bank rate, and the partial relaxation of credit restrictions announced a few weeks ago, only halt that recession, the Chancellor's current policy will have achieved as valuable an objective as his "shock" tactics of last November performed in stopping the drain on sterling. The next step should be a lowering of direct taxation, which would provide a greater stimulant to trade and expansion without necessarily bringing back an inflationary period.

Onward from Galen

A CURRENT CAUSERIE

THOSE now pressing for free medicines for private patients may care to ponder on an observation in the annual report for 1957, tabled in the Southern Rhodesia Assembly recently, of that country's Chief Native Commissioner. The Commissioner points out that some Africans consider that the free medicine supplied to Africans by hospitals and clinics is not very good. "They base their belief on the fact that witch doctors insist that their remedies are useless unless they are paid for." The view of the Commissioner is that the majority of Africans would not mind contributing something towards the health services.

*

DEALING in its official journal with the argument whether or not mobile shops should be brought within the hours of closing law (see C. & D., July 19, p. 27) the Institute of Shops Acts Administration says that, from the inspectors' point of view, it matters little. "We are certain," says the Institute, "that until an Act is on the statute book that is capable of being interpreted and understood by the persons whom it most vitally concerns in their daily life, then our position as inspectors is tantamount to untenable." The writer goes on to ask: "Of what use is legislation which has perforce to be interpreted in such costly manner by constant recourse to the High Court—which many authorities fight shy of in these days of rising costs and higher rates—resulting in determinations which, though legally



Philadelphia Museum of Art.

"Ride to Rumford," a Rowlandson etching included in the Ars Medica exhibition organised by Smith, Kline & French Laboratories, Ltd., London, S.E.5.

correct, are to say the least catastrophic in their implications and more so in their application? If, like so many before us, we may be permitted to borrow a phrase from a master at the art of coining phrases, we would say 'Give us the tools—and by that we mean a reasonable and workable act—and then we will do the job'."

*

WILL the United States ever have a national "free" medical service? There are those who see trends in that direction, but with the mental picture—whether accurately or imperfectly reflected—before them of the British National Health Service there is resistance to those trends by the professions most closely concerned. The doctors have actively campaigned against "social medicine." A pharmaceutical viewpoint is expressed by the Editor of the American Professional Pharmacist (Miss Madeline Holland, D.Sc.) in the May issue of that journal. She writes:

"At present the majority of health plans, whether they be those of insurance companies, government or of labour unions and other organisations do not include prescriptions in their plans. For this omission pharmacy can be grateful. . . . We must recognise that many government officials, and the majority of labour union officials, when speaking of such programmes, both request and predict the extension of these programmes to include what they call a major portion of the medical expenses, namely prescriptions. Elected government officials naturally are eager to obtain every benefit for their voters just as are labour union officials for their members for how else can they maintain their positions? Each time a "fringe benefit" is obtained a goal is set for a new one. Because they are rapidly nearing the bottom of the barrel it will not be long before they set their sights on drugs. And generally how do these moves get started? Usually they develop first at a local level and then snowball into a national project. . . . Therefore, in regard to voluntary health plans and the inclusion of prescriptions, it is important that every pharmacist be alert to any such movement in his community and along with his colleagues or local association take steps to counteract it"

If American pharmacists dislike what they see in Britain, not many British pharmacists would like, we imagine, to have quite the full onus of responsibility implied in a test case recently brought before the Supreme Court of the State of North Carolina (which expects all dispensing to be done by pharmacists). A person who was not a pharmacist dispensed a prescription. The State Supreme Court found the non-pharmacist guilty. On that basis there would be widespread "guilt" in this country. Could dispensing "by," and not "by or under the supervision of," the pharmacist ever become a realisable ideal in this country? In present circumstances the trend seems rather away from than towards it.

FIRST DAYS

A student at the school of pharmacy, Leicester College of Technology and Commerce, gives his early impressions, of practical work in a pharmacy today

JOHN D. WYKES

THE prospect of working for my living was not, I admit, extremely thrilling. However, I viewed the proximity of the event with mixed feelings of anticipation and curiosity.

I arrived at the shop fresh from school, complete with tomato sandwiches and keen to embark upon my chosen career. A lady assistant courteously inquired if she could help me and I asked if I could speak to Mr. W——. However, I could see that the manager was busily engaged in the process of trying to convince a customer on some point.

process of trying to convince a customer on some point.

"These ent the roight sort," the customer, a little lady in her forties, was saying. "They was 'eart shaped last time. Same colour, blue, but they was 'eart shaped." "These are what the doctor prescribed," said Mr. W——, endeavouring to assure her. "Fer me nerves yer know," confided the small woman. "Yes, these are for your nerves," emphasised Mr. W——. "Ah well, se long as oi know," replied the customer, and ambled, only half convinced, through the door.

The Manager

The manager greeted me good humouredly. He was a large rotund man with a bald head, a characteristic which I later became to associate with the profession. If a coloured sash was tied round his middle one could easily picture him rolling off the production line of a Bournville factory early in spring. I was taken to the staff room where Mr. Wtold me he had an overall which I could borrow. The first things I noticed in the staff room were an assortment of coloured cups, a teapot and a woman's magazine opened at a page which inquired whether I had a problem that Marie Sims could solve. The overall which presumably was originally white exhibited a dirty grey colour, the cuffs were worn and I was not surprised to find on gazing into the mirror that I looked more like a garage attendant than a chemist's assistant. My new boss then decided that the next step was to introduce me to the staff. The introductions were effected quite rapidly and I was disappointed to note that all the female staff wore either wedding or engagement

The cellar was the next establishment scheduled for my inspection. It possessed an almost indescribable odour, not unpleasant and somewhat vinegary. Mr. W—— halted beside a big red can which smelt strongly of methylated spirit, above which a large red "No Smoking" notice was affixed, and lit his pipe. "That's the Meths. can," he explained between puffs at the large briar. "Whenever you draw any from the tap always screw the cap on afterwards. We could lose all the profit on one can during a hot day." I glanced across the cellar and saw a barrel. I was beginning to wonder whether the boss had his private supply of the local brewer's best mild when the label told me it was "Vinegar Special No. 20 Quality." I recollect pondering at the time what the other nineteen qualities were

The task of finding me something to do was, I imagined, not too easy for my manager. Obviously I could not be let loose on the customers at so early a stage. He therefore asked the young qualified assistant what had occupied his time during the first day of his apprenticeship. The assistant, with a sickly grin, simply replied "Dusting." Introduction to a square piece of blue cloth rapidly ensued, a piece of cloth which, I might add, proved to be my constant companion for more than two years. Throughout my apprenticeship, dusting and tea-making were my two major and

most enjoyable duties, but I believe I preferred the former. To be balanced four feet above the floor on a ricketty stool, removing the grey furry sediment from the upper shelves was living to me. However, on this particular morning I was appointed to dust out a label drawer. This occupied the whole morning. During my lunch break I ate my tomato sandwiches, groped for a cigarette and relaxed after the morning's exertion.

After lunch I was given the job of filling a particularly dusty cupboard in the dispensary which was reserved for the storage of empty medicine bottles. However, before I could do this, a knowledge of the various sizes was necessary. This was provided by the head dispenser, a tall gentleman wearing a bristly moustache, a geometrically precise tie and a short overall which glowed after its obvious treatment with some proprietary detergent. While I was collecting the bottles in the cellar, the porter informed me that he was "a bit middling today." "Else gen'lly I find a bottle o' that there lin'tus keeps me roight," he explained. I didn't know at the time what "that there lin'tus" was but later in the week I discovered it was named after a Mr. Gee. Having filled the bottle cupboard, I made the domestic infusion, a job requiring endless personal skill. The first cup of tea I placed before Mr. W--- looked more like American cream soda than the housewife's stimulant it was supposed to be. It remained untouched on the dispensary bench when the shop closed.

The following day I was given permission to dust in the shop in full view of the public. While giving those amber bottles a shine worthy of any military parade ground I overheard many amusing snatches of conversation. I particularly remember a little old lady whose husband, to use her own words, "'ad got the gastric." The customers always conversed freely among themselves while waiting for their prescriptions. Perhaps they believed that some common bond had been established between them during their vigil at the chemist's.

"Oi said ter my Fred, have a day orf, I said. I'll 'a' the doctor to yer. A bottle o' medicine 'll put yer on yer feet."

"Yis, gal, they're all the same ent they. Carry on working till they knock themselves up. Our Albert's just the same."
"Prescription for Mrs. Gilkes"—the dispenser appeared

on the counter.

"Bill didn't last long arter 'is operation, did 'e gal?

Course, she never treated 'im right, gal. Didn't give 'im 'arf enough grub."

"Prescription for Mrs. Gilkes," the dispenser raised an

impatient, half-hearted bellow.

"Oh, ta, me duck. Did yer gi' me a form? Thanks. Cheerio, gal, see yer Sat'day if I dun't see y'afore."

Never a Dull Moment

Even in those early days I could see that life would never be dull. During my first day dusting in the shop I broke a large bottle of syrup of figs which unfortunately disintegrated after striking a jutting shelf, spraying Mr. W—and myself with the black viscous fluid. The following day, much to my horror, I repeated the procedure. This time a large bottle of proprietary magnesia was involved. The result was not amusing at the time. In his contemporary pair of trousers, one leg white and one leg black, my boss resembled a circus clown. However, I am sure that a clown would have borne a more pleasant facial expression. As I crawled to the cellar with head held low I remember hearing his comment—"It would have to be the large size again.

I'll buy him a b—y boiler suit for Christmas and get myself one while I'm about it! "

By the fourth day of the first week I was becoming accustomed to the everyday procedures and happenings in the shop. Each morning one of the girls would call all the other lady assistants around her in order to tell them about last night's date, that Gerald had gained promotion, that she had enough for a deposit on a house, etc. etc. They would be congregated neatly around a display stand aimlessly flicking here and there with a duster pretending to be doing something whereas the only constructive work was being done by the tongue! Heavy footsteps would become audible on the stairs and the ladies would flit apart as swiftly and lightfootedly as fairies. When Mr. W—— entered the shop, everyone was keenly carrying out their respective duties and any conversation was now concerned with the suitability of a particular article of merchandise for display purposes.

Towards the end of the first week of my apprenticeship Mr. W-- decided that it was time I became a useful member of the staff. Consequently I was given a lecture on methods of handling customers. When he had finished, I could almost recite the ethics of counter assistants or would it be more proper to say chemists' counter assistants? I had been briefed in readiness for my first customer. I think I said "Good morning" before she had opened the door. I then drew myself up to my full height, tried to radiate a professional atmosphere and said "Can I help you, Madame?" When she asked for a particular shampoo I felt rather disappointed. I had expected her to spend half a crown at least. She even gave me a pound note for a fourpenny article. My second customer asked for mascara. Now I remembered dusting these bottles earlier in the week. I had also noted that they came in two sizes. Wishing therefore to emphasise my knowledge of merchandise, I proudly exclaimed "Yes, madame, grains two or five?" I was wondering why the lady was peering at me as though questioning my sanity when one of the toilet assistants came to my rescue and escorted the dumbfounded woman to the other side of the shop. I served a further eight customers that morning and went to lunch feeling extremely satisfied. This feeling of elation, however, was not to last long because later I discovered that I had inserted the carbon paper upside down in my counter book with the result that none of my sales were recorded. I spent the afternoon foraging in the waste paper basket in an effort to find the bills for the sales I had made.

Friday Evening Comes Round

On Friday evening about seven girls from the factory over the road came into the shop, descended on me and one asked if we had a lipstick which would suit her. One of the assistants on the toilet counter obviously thought it was time I learnt a little elementary cosmetics and promptly thrust a shade chart into my hands which I immediately passed on to the customer. "I dunnow as that ud go wi' me powder, Sal. What do you think?" She addressed her friend who, until that moment, had been discussing with another of her workmates the physiological action of a medicated chewing gum. "Aw, that ud suit yer, gal," she replied in the classic English of the county. I was relieved when the sale had been completed and she trooped out of the shop with her bosom pals, happily clutching a shilling brand of "Vivid Red."

Saturday was, of course, the busiest and most interesting day of the week. I weighed two babies, and the porter sorrowfully told me that he had broken "a bottle of Woodward's Gripe Fruit." One old lady came in for her third pound of moth balls of the week. Mr. W—— postulated that she ate them. Perhaps she had butterflies in the stomach! Many amusing notes were delivered at the shop by children. I particularly remember three which I received during my first Saturday: "Have you got Heffer Green tablets?", "Eps and Salts," and "Have you got Anthisan?

It's for spots in a green packet." I can remember a little girl who asked for quinine powder but was refused. She reappeared later with a slip of paper asking if we had "Extra Strong Quinine Tablets."

I was somewhat surprised to find that the majority of the British public regard the dispenser as the medical genius of the pharmacy. Ever and again I was asked by customers if they could speak to "the gentleman wot mixes the medicine."

MEDICAL ABSTRACTS

DIAGNOSTIC BIOCHEMISTRY

A MEASURE of cell destruction in hepatic disorders that are accompanied by the necrosis of liver cells is given by the "glutamic oxaloacetic transaminase plasma level" (P.G.O.T.). Using that method, O'Brien, Goble and Mackay (Lancet, 1958. 1. 1245) have investigated the influence of cortisone upon the course of chronic hepatitis. In a number of cases they found significantly lower levels of P.G.O.T. The proportion reached four out of five in cases of acute chronic hepatitis, while a further five cases of chronic liver disease of different aetiology showed no lowered levels.

A NEW BROAD-SPECTRUM ANTIBIOTIC

THE American Professional Pharmacist (1958. 5. 371) reviews information available about kanamycin, an antibiotic isolated in 1957 by Japanese research workers. Chemically a polysaccharide, kanamycin consists of two moieties, kanamycin A and B. The compound displays basic properties, is readily soluble in water, and is stable in the dry state and in aqueous solution. It may be administered orally, but its absorption from the gastrointestinal tract into the blood stream is slow; parenteral injection readily provides a high blood level. Kanamycin is quickly eliminated from the body in a high concentration in the urine. Comparison with neomycin provides some index to its toxicity, which is lower with reference to nephrotoxicity, and in view of its less damaging action upon the eighth nerve it is considered less toxic than streptomycin. Its range of susceptible organisms include Gram-positive and Gram-negative, antibiotic-resistant strains of staphylococci, Myco. tuberculosis, D.pneumoniæ, M.pyogenes var. aurens, various pathogenic organisms originating from clinical sources, and certain strains resistant to other antibiotics. In some respects the antibacterial activity parallels that of neomycin. Clinical trials are in progress.

NEW BOOKS

Dispersion of Materials

ROLT HAMMOND, A.C.G.I., A.M.I.C.E. Heywood & Co., Ltd. 9 Kingsway, London, W.C.2. $8\frac{1}{2} \times 5\frac{1}{2}$ in. Pp. x + 239. 40s.

THE provision of a good basic volume covering the work of chemical engineers is welcome to all concerned with training them. Continuous flow processes and automatic control are among aspects touched upon. The subject matter is presented in the style of a discussion, requiring the active co-operation of the student to understand the reasoning and facts presented.

Clerical Salaries Analysis, 1958

Office Management Association, 58 Victoria Street, London, S.W.1. $9\frac{1}{2} \times 6$ in. Pp. 101. 42s.

This is the cighth of a series of surveys by the Office Management Association of clerical salaries. It is the result of investigating the wages and jobs of nearly 90,000 clerks, 64 per cent. of whom were women. The survey reveals a number of surprising facts, and refutes some generally held opinions, including the belief that London pays the highest salaries to male clerks. Since about 10 per cent. of Britain's working population consists of clerical workers, such up-to-date statistical information is invaluable in many ways. Among the tables of medium rates for various industries information is given based on the rates paid by 100 establishments throughout the country. There are also the results of a smaller sample in suburbs and West End of London.

THE NEW EXAMINATION SYLLABUS

Detailed arrangements for the three-year course

THE Pharmaceutical Society has issued for publication the new details of syllabus for the three-year course for the Pharmaceutical Chemist Qualifying examination. With the syllabus has been issued a statement in which it is pointed out that the regulations for the examination relate to the course to be followed by persons registered as student on and after March 1 (1958). The regulations provide for the division of the examination into three parts. Normally the candidate presents himself for Part I of the examination at the end of one year, Part II, at the end of two years, and Part III at the end of three years of study. Entry to the second year of the course is conditional upon first passing at least two of the three Part I subjects.

In General Terms

The syllabuses are set out in general terms. Their aim is to ensure that the student has a good knowledge of the fundamentals of the various subjects without being overburdened with detail. Absence of detail in the syllabuses also eliminates the need for the schools to teach out-of-date material "because it is in the syllabus." While, during each year, attention is largely directed to the subject matter upon which the student is to be examined, tuition during the first year is expected to include matter upon which there may be no examination until the end of the second year; similarly the second-year work includes matter upon which the student is not examined until the end of the three-year course.

Within the limits arising from examination at the end of each year, the overall arrangements in the pharmacy schools will vary according to teachers' preferences, and the extent to which a more liberal character is given to the course will vary similarly. Detailed interpretation of the syllabuses is, however, the subject of close collaboration between the teachers of all schools in order to arrive at such overall uniformity as is necessary for examination.

The time the schools are to devote to pharmacognostical studies is comparable with that provided in the past, but the future of pharmacognosy is felt to lie in its chemical and pharmacological aspects rather than in the detailed study of histology. A knowledge of microscopy continues to be required. The only new work in the subject is the inclusion of an elementary study of the pharmaceutical aspects of plant protection, and a knowledge of the more common indigenous poisonous plants and the antidotes used against their poisons, both additions are in line with the new approach to the subject. The overall time to be devoted to pharmaceutical chemistry is slightly more than in the two-year course, as the syllabus for the first two years covers matter that has been included in the examination during recent years. Changes in emphasis, such as more attention to nuclear chemistry and radioactivity, are

The third-year course and examina-

tion are designed to ensure that the student gains as complete a knowledge as possible of the drugs and chemicals handled in modern pharmaceutical practice. The work of the third year does not lend itself to a practical examination, and the Pharmaceutical Chemistry III examination becomes a written one of two hours' duration.

The increasing importance of a knowledge of the pharmacological action of
drugs is reflected in the time devoted
to the study of pharmacology (now
separated from physiology). In general
the physiology is taught and examined
upon during the first year of the course,
but the pharmacology examination does
not take place until the end of the
third year. By that time the student
will also have completed his studies
of the pharmaceutical and chemical
aspects of the medicaments. There is no
practical examination in physiology or
pharmacology, but the importance of
systematic practical work is assured by
the requirement that, at the oral examination at the end of the course, students must bring their own laboratory
notebooks—duly signed by the teachers
—for discussion with the examiners.

The time devoted to pharmaceutics, into which the former subject forensic pharmacy has been absorbed, should be substantially greater than has been possible hitherto, and the syllabus has been expanded to enable students to receive some training in the principles underlying modern pharmaceutical practice, especially as to the formulation of pharmaceutical products and the available forms of the more important therapeutic agents. A knowledge of radioactive isotopes, medical gases, inhalation equipment and surgical and medical appliances is also required. A new aspect of the practical examination is that it requires the student to show familiarity with the handling and dispensing of preparations packed by manufacturers, including the completion of such records as would be required if he were engaged in general practice.

Effect of Recent Research

Additions to pharmaceutics have been occasioned by the introduction in re-cent years of many important therapeutic agents which are available only as proprietary substances and of so many new vehicles in which drugs may bc administered. The additions are regarded as essential if the pharmacist is to maintain "his unique position" in medicine as an expert on drugs. Pharmaceutics is expected to be taught throughout the three-year course, even though there is no examination at the end of the first year. The first two years of the course are concerned with the foundations on which modern pharmaceutical practice is based so that in his final year the student may both acquire skill in all forms of traditional phar-maceutical practice and learn the fundamentals of pharmaceutical formulation and how to deal with prescriptions calling for substances only available in the form of prepacked proprietary medicines. The practical examination at the end of the second year is concerned only with aseptic techniques, etc., and may be compared with the examination in such work taken by students who have attended the two-year final course only. Two periods of practical examination at the end of the third year are concerned with the traditional type of dispensing and the dispensing of manufactured and prepacked substances.

"Some Overlap"

Physical chemistry features in both the pharmaccutical chemistry and pharmaceutics syllabuses, but there is no practical examination on that aspect of the course. Inevitably some overlap may occur in the instruction, but that should serve to integrate the two subjects in the mind of the student. A knowledge of physical chemistry is important, too, in the teaching of modern pharmaceutical formulation. Though most of that work is carried out either by manufacturing houses or in connection with the preparation of the British Pharmacopæia, British Pharmaceutical Codex, British National Formulary and similar publications, a pharmacist must be able to accommodate the physician who is not satisfied with the available form of the drug he wishes to administer to his patient.

Forensic pharmacy is as indicated above, absorbed into pharmaceutics. A knowledge of the legislation applicable to the practice of pharmacy forms part of the subject Pharmaceutics III, the remainder of the subject being almost wholly new matter for a student. The latter concerns the development, administration and organisation of pharmacy wherever it is practised, professional conduct, relationships and liabilities of individuals. The same part of the syllabus puts to the test a knowledge of medical gases, inhalation equipment, surgical dressings and medical appliances.

PART I

PHARMACOGNOSY I: The examination in pharmacognosy I comprises one two-hour written session on:—

The classification of crude drugs.

The cultivation, collection and preparation for the market of and commerce in crude drugs, including an elementary study of the pharmaceutical aspects of plant protection.

Macroscopical and microscopical methods used for the examination of crude drugs.

The sources, preparation and properties of the fibres used in the manufacture of surgical dressings.

PHARMACEUTICAL CHEMISTRY I: The examination in pharmaceutical chemistry I comprises one three-hour written session on:—

The principles of physical chemistry treated in an elementary manner mainly with reference to their pharmaceutical applications.

The general principles of inorganic chemistry based upon the characteristics

of the elements and compounds shown by periodic relationships and an elementary treatment of valency and electronic structure.

An elementary treatment of atomic structure, isotopes, nuclear chemistry and natural and induced radioactivity.

An introduction to organic chemistry including simpler aliphatic compounds.

PHYSIOLOGY: The examination in physiology comprises one three-hour written session on:—

The physiology and histology of the following systems of the body and of the main methods by which their functions have been established (with the exception of the physiology of the endocrine organs, and vitamins).

The cardiovascular system, the blood and lymph; the respiratory system; the nervous system; the locomotor system; the digestive system; the urinary system; the endocrine organs and the reproductive system.

PART II

PHARMACOGNOSY II: The examination in pharmacognosy II comprises one two-hour written and one three-hour practical sessions, based primarily upon the matter set out below. Questions involving a knowledge of pharmacognosy I are not excluded, and the examiners are not precluded from asking oral questions during the practical session.

A knowledge of the sources, macroscopical, sensory and microscopical characters, varieties and constituents of crude drugs; the chemical and physical properties of plant constituents and their isolation and identification.

Methods used for the identification of crude drugs, and the detection of adulteration.

The types of standards applied to crude drugs.

The changes which occur during drying, comminution and storage of crude drugs, including the factors responsible for deterioration during storage.

A knowledge of the more common indigenous poisonous plants; the antidotes used in cases of poisoning by the same.

In the practical session the candidate may use the British Pharmacopæia, British Pharmaceutical Codex and his own practical notebooks, except for answering questions involving the identification and/or objective description of crude drugs. He is required to bring to the practical session his original laboratory notebooks, duly signed by the teacher, for inspection.

PHARMACEUTICS I: The examination in pharmaceutics I comprises one three-hour written and one three-hour sessions based upon knowledge of the matter set out below, together with relevant practical work. The examiners are not precluded from asking oral questions during the practical session.

The application of physical phenomena to pharmaceutical operations and practice: pharmaceutical plant and unit operations.

An introduction to Microbiology: microbiological techniques and their ap-

plication to pharmaceutical products and processes: sterilisation: asepsis and aseptic techniques.

Practical Examination

Aseptic technique in the distribution of sterile solids and liquids into containers. Tests for sterility; evaluation of bacteriostatic and fungistatic power. Exercises involving microbiological techniques and sterilisation.

The candidate is allowed to bring to the practical session any book or books he wishes. He is required to bring to the practical session his original laboratory notebooks, duly signed by the teacher, for inspection.

PHARMACEUTICAL CHEMISTRY II: The examination in pharmaceutical chemistry II comprises one three-hour written and one six-hour practical sessions based primarily upon knowledge of the matter set out, plus the relevant practical work, though questions involving a knowledge of the work of pharmaceutical chemistry I are not excluded. The examiners are not precluded from asking the candidate oral questions during the practical session.

Electronic interpretations of organic chemistry. Isomerism. Nomenclature.

The chemistry of aliphatic and aromatic organic substances including that of heterocyclic compounds with special reference to pharmaceutical applications.

Chemical synthesis by means of the more important reagents.

General methods for the extraction of alkaloids and methods employed for the elucidation of structure.

The general chemistry of the carbohydrates, proteins and of the fixed and volatile oils.

Practical Examination

Volumetric analysis; gravimetric analysis; organic and inorganic qualitative analysis; the preparation of organic compounds. The pharmaceutical applications of the above.

The candidate is allowed to bring to the practical session any book or books he wishes. He is required to bring to the practical session his original laboratory notebooks, duly signed by the teacher, for inspection.

PART III

PHARMACEUTICS II: The examination in pharmaceutics II comprises one three-hour written and two three-hour practical sessions based primarily upon a knowledge of the following matter together with the relevant practical work, though questions involving a knowledge of the work of pharmaceutics I are not excluded. The examiners are not precluded from asking the candidate oral questions during the practical session.

The principles and methods of compounding and dispensing of medicines. The principles underlying the preparation, standardisation, labelling and storage of pharmaceutical products.

The chemical, physical, pharmacological and therapeutic factors involved in the presentation, formulation and stabilisation of pharmaceutical preparations.

Radioactive istotopes, their preparation,

properties and uses. Detection and measurement of radio activity. Health hazards, handling, storing, dispensing, dosage and waste disposal.

Practical Examination

The compounding and dispensing of medicines and the preparation of other pharmaceutical products; the handling and dispensing of preparations packed by pharmaceutical manufacturers, and the completion of the appropriate records.

The candidate is allowed to bring to the practical sessions any book or books he wishes. He is required to bring to the practical sessions his original laboratory notebooks, duly signed by the teacher, for inspection.

PHARMACEUTICS III: The examination in pharmaceutics III comprises one three-hour written an oral sessions based upon a knowledge of the matter set out below, though questions involving a knowledge of the work of pharmaceutics I and pharmaceutics II are not excluded.

An outline of the history of pharmacy. The development, administration and organisation of the general practice of pharmacy, the hospital service and the pharmaceutical industry. Posology; prescription reading.

A knowledge of the enactments and subordinate legislation made under them which are applicable to the practice of pharmacy in Great Britain. Professional conduct, relationships, and liabilities. Medical gases, inhalation equipment; surgical dressings and medical appliances.

PHARMACOLOGY: The examination in pharmacology is based upon that set out below together with physiology in relation to its pharmacological application of the endocrine organs, nervous system and vitamins. It will comprise one three-hour written and an oral sessions.

The candidate is required to have knowledge of the actions and uses of drugs in common use, the general principles of pharmacology, chemotherapy, toxicology and of biological assay. He should be prepared to show his acquaintance with the methods employed for the investigation of fundamental physiological processes and the actions thereon of drugs and his own experience of simple estimations and experiments in physiology and pharmacology, including their chemical aspects.

The candidate is required to bring to the oral session for discussion with the examiners his original laboratory notebooks, duly signed by the teacher.

PHARMACEUTICAL CHEMISTRY III: The examination in pharmaceutical chemistry III comprises one two-hour written session on:—

Relationship between chemical or physical structure and physiological action; the general principles of chemotherapy.

The composition, constitution or structure and nomenclature of drugs in common use. The properties of such drugs which influence their mode of employment.

The deterioration or decomposition, if any, on storage, or in use, and precautions to prevent or minimise it in drugs in common use.

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introduce a **NEW** idea in perfumes

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TOP-TO-TOE FRAGRANCE

2 oz bottles retail at 5/- 4 oz bottles retail at 7/6

* Nationwide promotion to help you SELL Top-to-Toe:

From September on — every week until Christmas, large-space advertising will appear in big circulation women's magazines, selling TOP-TO-TOE to 4 MILLION women.

This advertisement will be seen in MAN'S DAY, WOMAN, MODERN WOMAN, TRUE ROMANCES SHE, PICTUREGOER, TRUE STORY, SINCERELY

POINT-OF-SALE SELLS FOR YOU!

Gay, lovely showcards are ready for you to display, keyed to this advertisement, reminding women when they are in YOUR shop to buy TOP-TO-TOE.

Plan your window display for TOP-TO-TOE NOW-get maximum benefit from this promotion!

SAVILLE TOP-TO-TOE MEANS FASTER

HIGHER PROFIT and BONUS TERMS! For Every Dozen Bottles You Order You Get One Extra FREE!

THIS BONUS MEANS AN EXTRA 7% PROFIT

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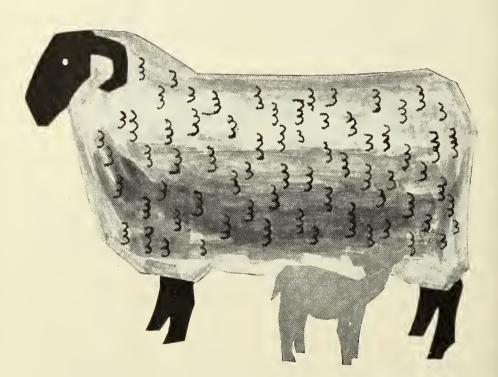
WITH EVERY ORDER YOU GET A DISPLAY PIECE FREE!

REPRESENTATIVE -- CONTACT YOUR WHOLESALER FOR DETAILS -- STOCK TOP-TO-TOE NOW!

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A further advance in Lamb Protection



A new, combined

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Lamb Dysentery &

Pulpy Kidney disease

from the Wellcome

Research Laboratories

A considerable step forward has resulted from the introduction of 'Wellcome' Improved Lamb Dysentery Vaccine.

This new vaccine, given to ewes and gimmers in a dose of 2 c.c. will protect their new-born lambs, through the first milk, against pulpy kidney disease as well as lamb dysentery: the protection against pulpy kidney disease extends for the first three or four weeks of life.

The use of this vaccine can be so adapted that it will afford protection in a breeding flock to the adult sheep themselves against pulpy kidney disease and "struck".

Order your supplies now, for the first dose of this vaccine should be used in unprotected flocks at "tupping" time.

'WELLCOME' Improved Lamb Dysentery Vaccine



Bottles of 100 c.c. (50 doses)

Prepared at the Wellcome Research Laboratories

BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.) LONDON

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TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, AUGUST 20: The markets remained generally dull and inactive during the week although there was a little more inquiry for certain CRUDE DRUGS.

Cape ALOES continued in the doldrums and lower prices at origin and on the spot had little effect on buyers. Aleppy green CARDAMOMS have become somewhat scarce on the spot while prices at origin tend to creep upwards. ERGOT was reduced by sixpence per lb. in Portugal. Gum ACACIA moved up 2s. 6d. per cwt. on the spot and 3s. for shipment. SPICES were substantially unchanged with the exception of PEPPER. Among AROMATIC SEEDS, Moroccan CORIANDER and Indian DILL were cheaper for ship-CORIANDER and ment. Lower quotation at origin for COLOCYNTH pulp have permitted spot holders to reduce their prices by ninepence per lb. Also lower were SAF-FRON, down 5s., per lb. and TONQUIN BEANS, down threepence. Tinnevelly SENNA shipped from Tuticorin during July was as follows:-

	U.K.	U.S.	EUROPE
SENNA	Tons	Tons	Tons
LEAVES	. 11	110	180
PODS	218	<u> </u>	138

ESSENTIAL OILS attracted little attention during the week and most were quotably unchanged. Lower offers for Californian ORANGE are expected shortly.

CORTISONE, PREDNISONE, PREDNISO-LONE and HYDROCORTISONE have been reduced by the manufacturers. The extent of the price reduction for POTAS-SIUM IODIDE noted last week was one shilling per lb.

Pharmaceutical Chemicals

AMIDOPYRIN.—Minimum rate is 25s. 2½d. per lb. with usual differentials for smalls.

AMYLOBARBITONE. — B.P.C. is 77s. 6d. per kilo for minimum 25-kilo lots and sodium, B.P.C., 87s. 6d. per kilo. lots and

BARBITONE.—Rate for less than 25-kilo lots is 53s. 6d. per kilo. The SODIUM derivative is 56s. 9d. per kilo.

Barium Sulphate. — 250-kilo lots B.P. (x-ray) are now 3s. $3\frac{1}{2}$ d. per kilo.

BENTONITE.—Offers of B.P. material are about £70 per ton as to quantity.

per lb.; and Sodium salt is 2s. 9½d. per lb. in 1-cwt. lots. BENZOIC ACID.—1-cwt. lots are 2s.

be in 1-cwt. lots.

Borax. — B.P. grade for quantities of 1 ton and upwards; Granular, £55; crystals, £57 10s.; powder, £58 10s.; extra fine powder, £59 10s. per ton. Supplied in hessian sacks. Prices of commercial range from £45 to £50 10s. per ton, as to type and packing. Dehydrated borax is £68 per ton in paper-lined hessian bags or £67 in paper bags; carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5 cwt., 1s. per cwt.; 3 cwt., 2s.; 1 cwt., 3s.

Boric acid. — Prices (per ton) for B.P. grade in quantities of 1 ton and upwards are as follows:— Granular, £89 10s.; crystals, £96 10s.; powder, £94; extra-fine powder, £96 per ton, in lined hessian bags, carriage paid in Great Britain. Less £1 per ton if supplied in paper bags. Technical grades range from £75 10s. to £85 per ton according to type and packing.

Bromides.—Prices per lb. are as fol-

		1 cwt.	5 cwt.
		s. d.	s. d.
Potassium	 	2 6	2 5
Sodium	 	2 6 -	2 5
AMMONIUM	 	2 10	2 8½

The prices quoted are for crystals (powder is 1½d. per lb. more) packages free, carriage paid terms. The kilo rates for 50-kilo lots are 5s. 6d. for potassium and sodium and 6s. 3d. for ammonium.

BUTOBARBITONE. — B.P.C. is 82s. 6d. per kilo in minimum 25-kilo lots.

CALCIUM CARBONATE. — B.P. light-precipitated powder is £32 per ton, ex store.

COCAINE.—For 16-oz. lots the price of the HYDROCHLORIDE is 91s. 6d. per oz. and ALKALOID, 101s. Subject to D.D.A. Regulations.

Cyclobarbitone.—B.P.C. and Calcium in 25-kilo lots or over is 82s. 6d. per kilo.

DICOPHANE (DDT).—Prices are as follows:—1-cwt. lots 3s. 2d. per lb.; 5-cwt. 3s. 0½d.; 1-ton, 2s. 11d.

DIPHENAN.—Prices range from 55s. 3d. (56-lb.) to 63s. (1-lb.) per lb.

EPHEDRINE. — ALKALOID, is nominally 6s. 6d. per oz.; SULPHATE, 4s. and HYDRO-CHLORIDE, 3s. 3d. per oz.

Ergometrine. — For 20-gm. lots the price of the maleate, B.P. is £17 10s. per gm. and the tartrate, £16 5s. per gm.

GLYCERIN.—Rates for pharmaceutically pure (s.g. 1.2627) are as follows:—

Annual purchases or spot lots of	Und 1 cv		an und 5 cv	d er	5 cv an und 1 to	d ler	l to an und 5 to	d er	5 tons and under 25 tons			
Per cwt.	s.	d.	5.	d.	s.	d.	s.	d.	s.	d.		
TINS												
14-lb.	241	0	236	6	232	6	228	0	225	6		
28-lb.	239	0	234	6	230	6	226	0	223	6		
56-lb.	235	0	230	6	226	0	222	0	219	6		
DRUMS			1									
1-cwt.	-	- /	214	6	210	6	206	0	204	6		
$2\frac{1}{2}$ -cwt.	_	-	211	6	208	208 0		6	202	0		
5-cwt.	-	-	-	- 1	207	207 6		203 0		6		
10-cwt.	-	-	-	-	206	0	202	6	201	0		

For 25 tons and upwards the price is from 200s. to 225s. 6d. as to containers. Bulk deliveries in tank wagons from 197s. 6d. to 198s. 6d. Technical grade glycerin, s.g. 1·2627, is 5s. per cwt. less than the above.

HOMATROPINE. — Current rates (per oz.) for 16-oz. lots are now: ALKALOID, 30s. 6d.; HYDROBROMIDE, 24s. 6d., HYDRO-CHLORIDE, 28s. 6d.; METHYLBROMIDE, 25s. 6d. 1-oz. rates are 1s. 6d. per oz. above those rates above those rates.

HYPOPHOSPHITES.—Prices per lb. are: -

	7 lb.	28 lb.	1 cwt.
	s. d.	s. d.	s. d.
CALCIUM, B.P.C.	6 9	6 4	5 11
IRON, B.P.C.	13 9	13 3	12 9
MAGNESIUM	11 6	11 1	10 8
MANGANESE, B.P.C.	13 11	13 5	12 11
POTASSIUM, B.P.C.	9 3	8 10	8 5
SODIUM, B.P.C	7 7	7 2	6 9

ICHTHAMMOL. — B.P. is from 2s. to 6d. per lb. in 1-cwt. lots as to origin and container.

IRON SALTS. — GLUCONATE, B.P.C., is 6s. 3d. per lb. in 1-cwt. lots; SULPHATE, B.P. crystals are 9½d. per lb. in 28-lb. lots; 1-cwt. is 57s. 6d. per cwt. and 5-cwt., 52s. 6d. per cwt.; SULPHATE EXSICCATED is 1s. 5d. per lb. for 28-lb., 1-cwt., 123s.; 5-cwt., 113s. per cwt., 1-cwt. fibre kegs free. Other packages extra. PHOSPHATE,

B.P.C., 28-lb., 3s. 6d. per lb.; 1-cwt., 3s. 3d. PHOSPHATE, SACCHARATED, B.P.C., 28-lb. lots are 3s. 9d. per lb.; 1-cwt., 3s. 6d. Oxide, RED PRECIPITATED, B.P.C., 1949, 1-cwt., 2s. 1d. per lb.; CARBONATE, SACCHARATED, B.P.C., 1949, 28-lb., 3s. 3d.; 1-cwt.. 3s. AMMONIUM CITRATE, scales, 6s. 6d. per lb.; GRONDIAN STRUM SULP BLATE granular, 5s. 9d. Ammonium Sulphate, 1-cwt., 1s. 10d. per 1b. Quinine Citrate, 2s. 1d. per oz. in 100-oz. tin.

METHADONE HYDROCHLORIDE. — Price is from 2s. to 2s. 6d. per gm. as to quantity. Subject to D.D.A. Regulations.

NICOTINAMIDE. — Prices per kilo are now: 1 kilo, 90s.; 10 kilos, 87s. 6d.; 50 kilos, 85s.

OPIATES.—Home trade prices (per oz.) are as follows (subject to D.D.A. Regula-

	35 oz ov		Uno 35 (
	s.	d.	5.	d.
CODEINE				
PHOSPHATE	 41	0	42	0
· HYDROCHLORIDE	 47	3	48	3
SULPHATE	 47	3	48	3
ALKALOID	 54	0	55	0
MORPHINE				
ACETATE	 50	0	51	0
HYDROCHLORIDE	 50	0	51	0
SULPHATE	 50	0	51	0
TARTRATE	 60	0	61	0
ALKALOID	61	3	62	3
ETHYLMORPHINE				
HYDROCHLORIDE	 54	0	55	0
ALKALOID	63	3	64	3
DIAMORPHINE				
HYDROCHLORIDE	 54	9	55	9
ALKALOID	59	9	60	9

Oxalic acid.—Manufacturers' rates for ton lots are from £128 10s. per ton, delivered in free kegs.

PENTOBARBITONE SODIUM. — 25-kilo lots are 125s. per kilo.

PETHIDINE HYDROCHLORIDE. — B.P. 100-gm. lots, 100s. Subject to D.D.A. regulations.

PHENOBARBITONE. — Under 25-kilo lots are 52s. 3d. per kilo and SODIUM, 55s. 6d. — Under 25-kilo lots

PROCAINE HYDROCHLORIDE.—100-kilo lots are about 45s. per kilo.

Pyrogallic acid. — Pure crystals are 22s. 6d. per lb. in 1-cwt. lots; resublimed, 24s. 3d.

QUININE. — Makers' rates for 1,000-oz. QUININE. — Makers fales for 1,000-02. loss are now:—SULPHATE, B.P.C., 1932, 1s. 10d. per oz. sulphate, B.P.C., 1953, 2s. 0½d.; BISULPHATE, 1s. 10d.; DI-HYDRO-CHLORIDE, 2s. 4¾d.; HYDROCHLORIDE, 2s. 6½d.; ETHYL CARBONATE, 4s. 3d.

SACCHARIN.—In lots of 1 lb. and over B.P.C. powder is quoted at 99s. 10d. per lb., the SODIUM SALT is 80s. 10d. per lb. Prices include duty and carriage.

STRYCHNINE.-Per oz.: ALKALOID, crystals, 8s. 3d. HYDROCHLORIDE, 8s. SULPHATE, 7s. 3d.; NITRATE, 8s. 96 for 100-oz. lots in free containers.

Sulphacetamide. — Quotations (per lb.) for 1-cwt. lots are 24s. 6d. The Sodium derivative is 30s.

SULPHAGUANIDINE.—Manufacturers' rates for 1-cwt. lots are about 11s. per 1b.

SULPHANILAMIDE. — Manufacturers' rates for 1-cwt. lots are 5s. 9d. per lb.

SULPHATHIAZOLE. — Price (per lb.) for 1-cwt. lots is 16s. 6d.

TANNIC ACID.—The B.P. levis, ex ether is quoted at 9s. 9d. per lb. for 1-cwt. lots. The B.P. powder is 9s. 3d. per lb. in 1-cwt. lots.

TEREBENE. - For 1-carboy lots, 4s. 2d. per lb. is asked. In winchesters, prices are 15s. 9d. per lb.; 28 lb., 14s. 6d.

TEREBINTH.—B.P. is 2s. 3d. per lb.

Crude Drugs

ACONITE. — Spot supplies of Spanish napellus are 2s. 6d. pcr lb.

AGAR.—Kobe is 11s. per lb., duty paid. New crop for shipment, 9s., c.i.f.

ALOES. — Cape prime on the spot is 230s. per cwt.; shipment, 210s., c.i.f.

BALSAMS. — Quotations per lb. are:—Canada: Spot, 25s. Copaiba: Para from 8s. to 10s., duty paid. Peru: Spot, 11s. Tolu (genuine as imported): 24s. 6d.;

Buchu.—Spot rounds are 6s. 6d. per lb. and shipment, 5s. 9d., c.i.f.

CALAMUS. — Dutch root is quoted at 1s. 4d. per lb., c.i.f.

CAMPHOR.—B.P. POWDER is from 5s. per duty paid. TABLETS, \(\frac{1}{4}\)-oz., are 6s., in bond

- East African are from 150s. to 200s. per cwt. on the spot.

Cardamoms.—Aleppy greens are 15s. 6d. per lb. on the spot; August-September shipment, 14s. 3d., c.i.f. No. I seed for shipment, 20s., c.i.f.; spot, 24s. 3d.

Cascara.—Spot 1957 peel, 260s. per cwt. 1958 peel, shipment, 205s., c.i.f.

Cassia.—Selected whole bark for shipment is 220s, per cwt., c.i.f., and extraselected broken, 215s., c.i.f. Spot: Whole 230s, in bond nominal, *C. fistula*, new crop, 110s. per cwt.

CHERRY BARK.—Thin natural is 1s. 5d. per lb., and rossed is ls. 11d.

CHILLIES. — Spot Mombasa are 160s. per cwt. and Zanzibar, 220s.

CINNAMON.—Ceylon for shipment (c.i.f.) per lb., OOOO, 7s. 5d.; OOO, 7s. 1½d.; OO, 6s. 10½d.; seconds, 5s. 6½d.; featherings, 1s. 11d.; quillings, 4s. 5d.; chips, 1s.

COCHINEAL.—Silver-grey Peruvian quoted 6s. 6d. per lb., c.i.f.; Canary Isles black-brilliant, 20s. 6d., spot.

COCILLANA.—Bark is 1s. 8d. per lb. on

COLOCYNTH PULP.—Spot, 3s. pcr lb.

Frangula.—Spot is 105s. per cwt.

GENTIAN.—French is 175s. per cwt. on the spot.

GINGER.—African. 107s. 6d. per cwt. the spot; new crop for shipment, 95s., c.i.f. Jamaican No. 3 on the spot is 300s. per cwt. August shipment (new crop), 250s., c.i.f.

GUM ACACIA. — Kordofan cleaned sorts are 140s. per cwt. on the spot; August-September shipment, 130s., c.i.f.

HONEY. — Australian light-amber is 115s. 6d. to 120s. 6d. and medium amber 102s. 6d. to 107s. 6d. Argentine 132s. 6d. to 137s. 6d.; Jamaican 135s. to 140s.; New Zealand clover, 160s. to 170s.; all per cwt on the spot per ewt. on the spot.

IPECACUANHA.—Matto Grosso, 54s., per lb., spot; shipment, 51s., c.i.f. Colombian quoted at 54s., spot and 53s., c.i.f.; Costa Rican, 70s., c.i.f.

Karaya. — No. 1 gum on the spot is quoted at 235s. per cwt. and No. 2 at

Krameria.—Root is quoted at 90s. per cwt., duty free.

Lanolin. — Anhydrous, B.P., is from 170s. to 175s. per cwt. in 1-ton lots and hydrous, B.P., 150s., free drums, delivered.

LEMON PEEL. — Spot is offered at 5s. per 1b.

LIQUORICE. — Natural root: Persian for shipment 42s. 6d., c.i.f., per cwt. Block juice: Anatolian, 200s. to 210s. per cwt., as to quantity. Italian stick from 310s. to 476s. per cwt. Spray-dried extract, 2s. 104d. per lb. 2s. $10\frac{1}{2}$ d. per lb.

LOBELIA HERB. — Spot offers are from s. 9d. per lb. as to origin. Dutch, 3s. 3d., c.i.f. for shipment.

MACE. — Whole on the spot is from 23s. 6d. per lb.

MENTHOL.—Chinese is 52s. per lb., duty paid and 47s. 6d., c.i.f.; Brazilian, spot, 35s. 6d., duty paid, shipment, 33s., c.i.f. Formosan for shipment, 35s. 6d., c.i.f.

MERCURY. — Price per flask (76 lb.) is £79 on the spot.

Orris root. — Florentine is 330s. pcr cwt. Short at origin.

PEPPER. — White Sarawak on spot is 2s. $7\frac{1}{2}$ d. per lb., August shipment, 2s. $6\frac{1}{4}$ d., c.i.f. Black Sarawak is 1s. 7d. spot, and August shipment at 1s. 7d., c.i.f. Black Malabar is nominal at 225s. per cwt. on spot; August shipment 210s., c.i.f.

Podophyllum. — *Emodi*: Stocks sold, awaiting new crop (August-September). *Peltatum*, spot, 4s. 3d. per lb.; shipment, 450s., c.i.f.

Pyrethrum.—Extract, minimum cent. w/w pyrethrins, is 72s. per lb.

QUASSIA. — Chips on spot are offered at 55s. per cwt., no shipment offers.

RAUWOLFIA. — Canescens, 2s. per lb., c.i.f.; Vomitoria, 2s. 3d., c.i.f.; Serpentina, 6s., c.i.f. asked.

SAFFRON. — Spanish is quoted at 230s.

Seeds. — (Per cwt.). Anise.—Cyprian, 165s.; Spanish, 165s., duty paid. Caraway. — Dutch in poor demand at 86s., duty paid. Celery.—Indian quoted at 180s. on spot. The shipment price is 145s., c.i.f. Coriander.—Spot unchanged with sellers of Moroccan at 62s. 6d. and Polish, 52s. 6d., both duty paid. Moroccan for shipment is easier with sellers quoting 44s. 6d., c.i.f. Cumin.—Cyprian, 235s. on spot; for shipment 212s. 6d. to 215s. quoted c.i.f. and Iranian, 195s. to 200s. Dill.—Sellers offering at 70s. spot. The forward price is easier at 57s., c.i.f. Fennel. — Indian offering at 180s. and Chincse, 157s. 6d., duty paid. Fenugreek. — Moroccan, 47s. 6d., duty paid. Mustard.—English, 67s. 6d. to 75s. with good quality unobtainable.

Senega.—Spot is 15s. per lb.; ship-

SENEGA.—Spot is 15s. per lb.; shipment, 11s. 6d., c.i.f.

SENNA. — Tinnevelly LEAVES, prime No. 1, 1s. 5d. per lb., f.a.q., No. 3, 10d. Pods, manufacturing short at Is. 6d. and hand-picked, 2s. 1d. to 2s. 4d. Alexandria pods: Manufacturing, offered from 1s. 6d. with hand-picked from 5s. to 6s. with hand-picked from 5s. to 6s.

SHELLAC.—F.O.T.N., 195s. per cwt., F.6 No. 1, 210s.; fine orange, 225s. to 295s.

SLIPPERY ELM. — Grinding quality bark is 2s. 7d. per lb.

SQUILL.—White is unobtainable on the spot. Shipment is quoted at 80s. per cwt.,

STRAMONIUM. — Indian LEAVES are 70s. per cwt., and European 80s. on the spot.

Tonquin Beans.—Para on the spot are offered at 8s. 3d. per lb. Shipment, 7s 6d., c.i.f.

Tragacanth.—No. 1 ribbon is £115 to £120 per cwt., No. 2, £105 to £110.

TURMERIC. — Madras finger is 62s. 6d. on the spot; August-September shipment, 59s. 6d., c.i.f., quoted.

VALERIAN ROOT. — Spot: Indian (with rootlets) is 130s, and Belgian 175s. to 195s. per cwt. Dutch (max. 2½ per cent. sand) for prompt shipment, 168s., c.i.f.

Vanillin.—Rates (pcr lb.) are now: 5-cwt. lots, 25s. 3d.; 1-cwt., 25s. 6d 56-lb., 25s. 9d.; smaller quantities, 26s.

WAXES. — (Per cwt.). BEES'.—Dar-es-Salaam, spot, 525s., shipment, 505s., c.i.f., Abyssinian, spot, 470s. in bond; shipment, 445s., c.i.f. Benguela spot,, 520s., duty paid; shipment, 465s., c.i.f. Candelllla.—Spot, 460s. Carnauba.—Fatty grey, spot, 570s.; for shipment, 565s., c.i.f. Prime yellow, spot, 1,000s.; shipment, 950s., c.i.f.

Essential and Expressed Oils

Anise.—Chinese, 8s. $1\frac{1}{2}$ d. per lb., spot; shipment, 7s. 6d., c.i.f.

BAY.—West Indian is 12s. 6d. per 1b. on the spot.

BERGAMOT. - Spot supplies are from 86s. 6d. per lb.

BIRCH TAR.—Rectified is about 14s. per lb. in 1-cwt. lots.

CALAMUS.—Spot quotations are 62s. 6d. per 1b.

Cassia.—Spot is 13s. 3d. per lb.; shipment, 13s. $4\frac{1}{2}$ d., c.i.f. CEDARWOOD.—1-cwt. lots of American

are 5s. per lb. and Kenya, 4s. CHENOPODIUM.—Spot value is 40s. per lb. for original containers.

CITRONELLA.—Ceylon, spot is 4s. $1\frac{1}{2}d.$; shipment, 3s. 6d., c.i.f. Formosan, prompt shipment, 3s. 9d. (spot 4s. in bond).

Cod-Liver. — B.P. is 11s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

EUCALYPTUS.—Australian 70 to 75 per cent. eucalyptol on the spot is 4s. 9d. per lb. 80–85 per cent., 5s. 6d. Spanish (70–75), 4s. spot.

GERANIUM. — Bourbon is 135s. per 1b. on the spot and 132s. 6d., c.i.f. Algerian,

JUNIPER. - B.P.C. 1949 oil is from 9s. per lb. on the spot. English-distilled is 155s. Juniper Wood, from 5s.

LAVANDIN.—Spot is from 10s. to 12s. 6d per lb. for original drums. LAVENDER.—French oil, 40-42 per cent

is at 50s. per lb. LAVENDER SPIKE. — Spanish is at 16s to 17s. per lb. for original drums.

LEMONGRASS.—Spot is 6s. per lb., and shipment, 5s. 8d., c.i.f.

ORANGE.—Spot quotations of sweet of include Floridan at 12s. 6d. per lb.; Cali fornian, 15s.; West Indian, 12s.; West African, 24s. 6d.; Israeli, 16s. 6d. Fo shipment, Californian cold-pressed, U.S.P. is nominal at 23s. 11d., c.i.f.; distilled 8s. 11d., c.i.f. Terpeneless is 200s. per lb. spot; bitter around 27s., as to sample.

OTTO OF ROSE. -- New crop price: awaited from Turkey.

PATCHOULI. — Penang is 27s. 6d., dut paid and 22s. 6d., c.i.f. per 1b. Seychelle is quoted at 31s., spot.

PEPPERMINT. — Arvensis: Chinese i 24s. 9d. per lb. on the spot nominal am 22s. 6d., c.i.f. Brazilian, 8s. 3d., spot am 7s. 9d., c.i.f. Formosan, 15s. 3d., spot new-crop for August–September shipment 12s. 6d., c.i.f. Piperita: Italian "Mit cham"-type, from 42s. 6d. to 50s. American, 27s. 6d. to 30s., as to origin

PETITGRAIN. — Paraguay is offered a 18s. per lb. on the spot; 16s. 9d., c.i.f.

PINE.—Pumilionis on the spot is 16s per lb.; sylvestris, 25s.; Siberian (abietis) 12s. 6d.

RUE.—Spanish is 25s. per lb. on th spot.

Tangerine.—Hand-pressed is 55s. pe lb. and machine-pressed, 42s. 6d., spot.

VETIVERT.—Spot is currently at abou 87s. 6d. per lb.

YLANG YLANG.—Spot is from 32s, 60 to 46s, per lb. as to grade.

UNITED STATES REPORT

NEW YORK, AUGUST 19: The pric of METHYL PARATHION was cut six cent to \$1.12 a lb. Antibiotics market were steady and unchanged while VITA MINS moved in seasonal volume. Sur plies of Hungarian type CHAMOMIL were virtually exhausted. CARAWAY OF was 25 cents higher at \$3 a lb.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," August 13

For chemical products used in industry, science and photography; chemical products used in horticulture and forestry; and chemical substances for preserving foodstuffs, etc. (1)
WH1FFENS, 749,339, by Whiffen & Sons,

Ltd., London, S.W.6.

For chemical preparations for use in prolonging the life of cut flowers (1)

FLORILLENE, 777,211, by Tack Air Condi-

tioning, Ltd., London, S.W.1,

For soaps, perfumes, eau-de-Cologne; and non-medicated toilet preparations in the form of creams, powders or lotions; skin tonics being non-medicated toilet preparations; and preparations for the hair (3)

Device, 773,621, by Elizabeth Arden, Ltd., London, W.1.

For powder boxes (cosmetic) and powder cases (cosmetic) for personal use (3)

MIMOSA, 774,175, by Kigu, Ltd., London,

For perfumes, toilet preparations (not medicated), cosmetic preparations, dentifrices, depilatory preparations, toilet articles (not included in other classes), sachets for use in waving the hair, and

REMEMBER, 775,982, by Goya, Ltd., London, W.1.

For eau-de-Cologne, perfumed sachets, perfumes; and toilet powder (for personal use) and toilet

waters, all being non-medicated (3)
NEARNESS, 776,276, BRIGHT NIGHT,
776,278, by Avon Products, Inc., New York, U.S.A.

For cosmetic preparations, soaps, perfumes, non-medicated toilet preparations and hair lotlons (3) HEART THROB, 776,779, by A. J. Siris Products, Ltd., Lanchester, Durham.

For toilet soaps (3)

JUDY, 776,844, by Hudson & Knight, Ltd., London, E.C.4.

For soaps, perfumes, non-medicated toilet preparations, essential oils, cosmetics and hair lotions (3)

BROMAFIX, OPTAWELL, 777,319 Wella Rapid, Ltd., London, N.W.1.

For all goods (3) PIP, 777,689, by Co-operative Wholesale Society, Ltd., Manchester.

For non-medicated toilet preparations (3)

STARTIME, 777,922, Co., Ltd., Nottingham. 777,922, by Boots Pure Drug

For medicated preparations for the treatment of the scalp (5)

THERADERM, 767,141, by Bristol-Myers Co., New York, U.S.A.

For pharmaceutical preparations containing lactulose and being for human use in promoting the growth of lactobacillus bifidus in the intestinal

canal and for use as an infants' food (5)
BIFITERLOSE, 768,986, by N.V. Tervalon,
Maatschappij Voor Voedingsmiddelen op nal and jor ... BIFITERLOSE, 768,98 Maatschappij Voor Voedingsmiddelen op Wetenschappelijke Basis (Scientific Food Co.), Utrecht, Holland,

COMMERCIAL TELEVISION

PROGRAMME details are given to enable chemists to make linking-up displays if they wish. Notice given is as far in advance of the programme date as can be guaranteed by the broadcasting companies. Where known, the number of appearances of the product during the week is shown in parentheses.

August 31-September 6 LONDON

Alka-Seltzer (2), Anadin (3), Aspro, Cadum soap, Camay (2), Daxaids, Damaskin, Digestif Ren-

Eno's Fruit Salt. Gillette razors and blades. Gleem (2). Ingram shaving cream. Knight's Castile soap (2). Larson's Swedish milk diet.

Maclean's indigestion remedies (3) tooth-paste Max Factor's toilet preparations. Magnesia (2), Mix-A-Shake (4), Moorland in-digestion tablets. Nervone, O-De-Dent denture powder (3). Phillips' magnesia tooth-paste (2). Rosemary shampoo.

Silvikrin hair eream, shampoo, Sunsilk shampoo (3). Vosene (3), Water Lilies shampoo (3). Yeast-Vite (2). Shadeine.

MIDLAND

Anadin, Aspro, Cadum soap, Camay (3), Dabitoff.

Gleem, Ingram shaving cream (3), Kolynos (7), Larson's Swedish milk diet.

Maclean's indigestion remedies (3), tooth-paste (3). Max Factor's toilet preparations, Meggeson's dyspepsia tablets (2), Mellajuce, Milk of Magnesia (2), Mix-A-Shake (3), Moorland indigestion tablets, Nemakol, Quickies (2),

Sanatogen, Silvikrin pure, shampoo, Sunsilk shampoo (3), Vosene (2), Water Lilies shampoo (3). Yeast-Vite.

NORTH

Alka-Seltzer. Amami wave set (2). Anadin (4). Aspro, Brylcreem (3). Cadum soap. Camay (2), Carter's little liver pills (2). Cephos (4). Delsey toilet tissue (2). Dento (3). Digestif Rennies (3). Dinneford's.

Eno's Fruit Salt (3), Fynnon salt, Gleem (2). Hiltone (2), Ingram shaving cream (3), Iron Jelloids (2), Knight's Castile soap, Kolynos, Larson's Swedish milk diet.

Maclean's indigestion remedies (3), tooth-paste (3). Max Factor's toilet preparations. Meggeson's dyspepsia tablets (2), Milk of Magnesia (3). Meggeson's Mix-A-Shake (2). Moorland indigestion tablets.

Sanatogen, Setlers, Silvikrin pure, hair cream, shampoo, Sunsilk shampoo, Trojan soap pads. Vapex. Vosene (3), Water Lilies shampoo (4). Yeast-Vite (2).

SCOTLAND

Anadin (4). Askit (7), Aspro. Cadum soap.

Gillette razors and blades, Gleem (4), Kolynos,

Maclean's indigestion remedies (2), tooth-paste (3). Factor toilet preparations, Moorland indigestion tablets.

Sunsilk shampoo (9), Trojan soap pads, Vosene (3). Water Lilies shampoo (3). Yeast-Vite.

WALES

Alka-Scitzer (2), Anadin (6). Aspro. Beecham's pills. Bristow's shampoo, Cadum soap.

Gillette razors and blades, Gleem (4), Kolynos,

Maclean's indigestion remedies, tooth-paste (3). Max Factor toilet preparations (2), Milk of Magnesia. Moorland indigestion tablets,

Silvikrin shampoo (2). Sunsilk shampoo (3). Vosene (4). Water Lilies shampoo (3). Yeast-

SOUTH

Anadin (2). Aspro. Cadum soap, Camay (2). Gleem (2). Knight's Castile soap (7), Max Factor's toilet preparations, Silvikrin shampoo. Vosene (4). Water Lilies shampoo (3).

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Wednesday, August 27

MANCHESTER PHARMACEUTICAL GOLFING SOCIETY, Birkdale, Competition for captain's prize,

Advance Information

BRITISH INSTITUTE OF MANAGEMENT, Connaught Rooms, Great Queen Street, London, W.C.2, on September 16. One-day conference on "Leader-

INDUSTRIAL WELFARE SOCIETY, 48 Bryanston Square, London, W.1, September 15–19, Conference for foremen on "Developing Foremanship Skills in Handling People." Speakers include Mr. P. H. Saxon (work study manager, Burroughs Wellcome & Co.) and Mr. P. C. Howell (personnel manager, Hilger & Watts,

READING BRANCH, PHARMACEUTICAL SOCIETY, OF September 7. Car rally, Meet at Traveller's Rest, Henley Road, Caversham, at 2.30 p.m.

C. & D. WEEKLY LIST OF PRICES

A = Advanced: R = Reduced; I.R.P. = Inclusive Retail Price; * = Tax 30 per cent.; ‡ = Tax 60 per cent.

													_		7					
SI	TEROID PI	RICE	CH	AN	IGES	3			15 gm.	22	6	30	0	R	Ef-Cortelan tablets					
								lotion 0.5 pe	er cent.						20 mgm. 100	90	0	120	0	R
BOO 12	PURE DRUG	÷ СО.,	LTE). (9	since A	٩ug	ust		20 mils	6	9	9	0	R	eye/ear drops 3 mils	4	3	5	8	R
18)								1 per cent.	20 mils	12	6	16	8	R	eye ointment					
Cortistal	b tablets			ach		R.F			er cent.						0.5 per cent. 3 gm.	2	3	3	0	R
	5 m gm.	40	8	0	10		R		3 mils	4	3	5	8	R	2.5 per cent, 3 gm.	6	0	8	0	R
		100	19	6	26	0	R	eye ointment	- 111110		_	•		•	skin lotion					
		500	95	0	126	8	R	2.5 per cent.	3 gm.	6	0	8	0	R	0.25 per cent. 20 mils	4	3	5	8	R
	25 mgm.	40	33	9	45	0	R	20 per cent.	J giii.	0	U	Ŭ	٠	*	0.5 per cent. 20 mils	6	9	9	ō	
		100	82	6	110	0	R	CTBA LABORATOR	DIES 17	TD (6	rom	Anan	101 1	25)	100 mils	30	Ó	40		\hat{R}
.		500	405	0	540	0	R	Ultracorten: Ultraco	orten-H	D. (I	тош	Augu	131 4	,	1 per cent. 20 mils	12	6	16		R
Deltastal	b; prednisone	tablets						tablets 1 mgm.		5	8	R			100 mils	54	ő			
	1 mgm.	30	6	3	8	4	R	tablets I mgm.	100	19		R			skin ointments Nos, I	54	U	' -	v	
		100	20	0	26	8	R		500	80		R			and 2 (non-greasy and					
		500	80	0	106	8	R	5 man		17		R R								
	5 m gm.	30	26	3	35		R	5 mgm,	100	65		R R			greasy bases)	2	2	2	0	D
		100	78	9	105	Õ			500	315		R R			0.5 per cent. 5 gm.	2 5	3	3 7		R R
		500	315	0	420		R		300	313	0	K			15 gm.	4	3	5	8	
Deltastal	b-B tablets					Ŭ		GLAXO LABORAT	ORIES.	LTD.	(si	nce A	1101	121	1 per cent. 5 gm.		3			R
	5 mgm.	30	26	3	35	0	R	18)	CITTED,		(51		iugi	4+> L	15 gm.	10	3	13	8	R
		100	78	9	105		R	Cortelan tablets							50 gm,	30	0	40		R
		500	315	ó	420		R	5 mgm.	. 50	10	0	13	4	R	2.5 per cent, 5 gm.	9	6	12		R
Hydroeo	rtistab tablets		5.25		-20	٠		25 mgm.		33	9	45	0		15 gm.	22	6	30		R
	20 mgm.	100	90	0	120	Λ	R	25 1116111.	100	82	6	110	0		50 gm.	66	0	88	0	R
ointme	ent (greasy), o		70		120	U			500	405	0	540	0		Ef-Cortelan with neomycin				_	_
	n-greasy) 0.5	per						Dolta Contolone Brook		405	U	240	U	21	eye/ear drops 3 mils	6			0	
cent		gm.	2	3	3	0	R	Delta-Cortelan; Pred		20			0	n	eye ointment 3.5 gm.	4	6	6	0	R
		gm.	5	9	7	8	R	tablets 1 mgm.		20	0	26	8		0.5 per cent, with neo-					
1 p		gm.	4	3	5	8	R	£	500	80	0	106		R	mycin skin lotion					
- P		5 gm.	10	3	13	8		5 mgm.		26	3	35		R	20 mils	9	6	12	8	R
2.5		gm.	9	6	13	8	R R		100	78	9	105	0		1 per cent, with neomy-					
	per cent.	gm.	9	O	12	0	N.		500	315	0	420	0	R	cin skin lotion 20 mils	15	0	20	0	R

skin ointments Nos, I and 2 (non-greasy and greasy bases) 5 gm.	4		0 R	PARKE, DAVIS & CO., LTI Prednisolone, P.D. & Co., and prednisone, P.D. & Co.	D. (from Augu	ıst 25)	Kaomycin 4 oz. 13 6 R 16 oz. 51 6 R
Predasin tablets dispensing pack 50	11 6			tablets 1 mgm. 25 100 500	20 0 30		OTHER PRICE CHANGES ARMOUR LABORATORIES
dispensing pack 500	52	0 69	4 R	1,000 5 mgm. 25	144 0 2I 6 20 0 30	0 R 0 R	Arcofac* 12 fl. oz. 25 2 R BOOTS PURE DRUG CO., LTD. (from August
MERCK SHARP & DO August 25) Codelcortone; Deltacortone	нме,	LTD.	(from	100 500 1,000		0 R 6 R 6 R	18) Viules heparin, B.P., 25,000 i.u. per mil 1 mil 15 0 22 6 R
tablets 1 mgm, 100 500	80	$\begin{array}{cc} 0 & R \\ 0 & R \end{array}$		PFIZER, LTD. (since August		O A	(Prices of the company's unbranded heparin pre- parations are also reduced.)
5 mgm, 30 100	78	3 R 9 R		Cortril eye ointment 0.5 per cent. 3 gm. 2.5 per cent. 3 gm.	$\begin{array}{cccc} 2 & 3 & R \\ 6 & 0 & R \end{array}$		STAFFORD-MILLER, LTD. (from September 1) Dr. Wernet's denture pow- der large 42 0 5 3 A
Co-Deltra; Co-Hydeltra tablets 2.5 mgm. 100	315 41	0 R 6 R		tablets 10 mgm. 25	12 0 <i>R</i> 45 0 <i>R</i>		der large 42 0 5 3 A Corega denture powder large 42 0 5 3 A
5 mgm, 30 100	26 78	3 R 9 R		20 mgm. 20 100 topical ointment (non-greasy	19 3 R 90 0 R		A. WANDER, LTD. (from August 25)
Cortisone tablets 5 mgm, 50	315	0 R 0 R		0.5 per cent, 5 gm. 15 gm.	2 3 R 5 9 R		Asmac tablets 100 123 0 13 8 R 250 270 0 30 0 R 500 519 0 57 8 R
25 mgm. 40 100	33 82	9 R 6 R		1 per cent, 5 gm, 15 gm, 50 gm,	4 3 R 10 3 R 30 0 R		1,000 1,011 0 112 4 R
Hydrocortone tablets 10 mgm, 25	405	0 R 0 R		200 gm, 2.5 per cent, 5 gm.	117 0 R 9 6 R		P.A.T.A. LIST (Alterations notified this week by the Proprietary
20 nigm. 100 25	45 23	0 R 9 R		15 gm. 50 gm. 200 gm.	22 6 R 66 0 R 260 0 R		Articles Trade Association.) CEPHOS, LTD. (from August 18) New Cephos powders or
topical ointment (greasy and non-greasy bases)	90	0 R		topical ointment (non-greasy 1 per cent. 5 gm,	4 3 R		tablets* 12 8 1 9 A 29 5 4 0 A
0.5 per cent. 5 gm. 15 gm.	2 5	3 R 9 R		2·5 per cent. 5 gm. 15 gm. 15 gm.	10 3 R 9 6 R 22 6 R		1 dose (2 powders or tablets) 21 doses (powders or
50 gm. 1 per cent. 5 gm. 15 gm.	4	3 R 3 R 3 R		lotion 0.5 per cent. 20 mils	6 9 R		tablets 29 5 4 0 A 60 (new pack) 87 6 11 0 A
2.5 per cent. 50 gm. 5 gm.	30 9	0 R 6 R		1 per cent, 20 mils lotion with neomycin	12 6 R 9 6 R		120 170 0 21 0 A ADDITION TO THE LIST
15 gm. 50 gm.	22 66	6 R 0 R		0.5 per cent. 20 mils 1 per cent. 20 mils Deltacortril tablets	15 0 R		THE BRITISH DRUG HOUSES, LTD. Stride foot powder* 26 0 3 9
0.5 per cent, 20 mils 120 mils	35			1 mgm. 100 500 5 mgm. 20	20 0 R 80 0 R 17 6 R		DELETION FROM THE LIST ELI LILLY & CO., LTD. M-90 Neolin ora
1 per cent, 20 mils 120 mils eye ointment	12 66	6 R 9 R		100 500	78 9 <i>R</i> 315 0 <i>R</i>		suspension.
2.5 per cent. 3 gm. eye drops		0 R		1,000 Deltacortril A.F. tablets 100	630 0 R 78 9 R		NEW PRODUCTS AND PACKS ARMOUR LABORATORIES Each
1 per cent, 3 mils Prednisolone tablets 5 mgm, 100	78	3 R 9 R		Prednisone tablets (Pfizer) 1 mgm. 100	20 0 R		Chymar-Zon 8 0 12 0 Arcofac* 6 fl. oz. 14 5
500	315	0 R		500 5 mgm. 30 100	80 0 R 26 3 R 78 9 R		BURROUGHS WELLCOME & CO. Wellcome improved lamb-
ORGANON LABORATO August 25) Adreson (cortisone acetate,	RIES,	LID,	(from	500 ROUSSEL LABORATORI	315 0 R	(from	dysentery vaccine 100 mils 25 0 CARNEGIES OF WELWYN, LTD.
B.P., tablets, scored) 5 mgm. 40			2 9 R	August 25) Cortisyl (cortisone) tablets		(1.0	Chrysocreme* 3 6 6 4
100 500 25 mgm. 20		0 30 0 135 0 25		5 mgm. 20 500 25 mgm. 20	4 9 R 95 0 R 17 0 R		E. K. COLE, LTD. Ekco Warm-glow blankets*:— Juno 66 11
40 500 Di-Adreson (prednisone,	33 405	9 50 0 6 0 1		40 100	33 9 R 82 6 R		Stella 91 3 Diana 130 10
B.P., tablets)	6	8 10	0 0 R	Decortisyl (prednisone) and Precortisyl (prednisolone)	405 0 R		Dorchester 185 7 Vigilux single 229 8
5 mgm. 30		0 120					
5 mgm. 30 100 500	78			tablets 1 mgm. 100 500	20 0 R 80 0 R		double 342 0 twin 390 10
Di Adeces E (d.:	315	9 118	9 4½ R 8 1½ R 2 6 R	500 5 mgm. 30 100	80 0 <i>R</i> 26 3 <i>R</i> 78 9 <i>R</i>		twin 390 10 DISTILLERS CO. (BIOCHEMICALS), LTD.
Di-Adreson-F (prednisolono B.P., tablets)	315	9 118 0 472	9 4½ R 8 1½ R 2 6 R	5 mgm. 30 100 5 mgm. 500 Hydrocortisyl (hydrocortisone cye drops bottle 3 mils	80 0 R 26 3 R 78 9 R 315 0 R		twin 390 10 DISTILLERS CO. (BIOCHEMICALS), LTD. Distaquainc V-K 60 tablets 60 mgm. 30 6 10 10 3 200 38 10 58 3
B.P., tablets)	315 6 20	9 118	9 4½ R 8 1½ R 2 6 R	5 mgm. 30 100 500 Hydrocortisyl (hydrocortisone cyc drops bottle 3 mils cyc ointment 0-5 per cent, tube 3 gm.	80 0 R 26 3 R 78 9 R 315 0 R e) 4 3 R		twin 390 10 DISTILLERS CO. (BIOCHEMICALS), LTD. Distaquaine V-K 60 tablets 60 mgm. 30 6 10 10 3 200 38 10 58 3 1,000 184 0 276 0
B.P., tablets) 1 mgm. 30 100 500 5 mgm. 30 100	315 6 20 80 26 78	9 118 0 472 8 10 0 30 0 120 3 39 9 118	9 4½ R 8 1½ R 2 6 R 0 0 R 0 0 R 9 4½ R 8 1½ R	5 mgm. 30 100 500 Hydrocortisyl (hydrocortisone cye drops bottle 3 mils eye ointment 0.5 per cent, tube 3 gm. 2.5 per cent, 3 gm. skin lotion 0.25 per cent, bottle	80 0 R 26 3 R 78 9 R 315 0 R 2) 4 3 R 6 0 R		twin 390 10 DISTILLERS CO. (BIOCHEMICALS), LTD. Distaquaine V-K 60 tablets 60 mgm. 30 6 10 10 3 200 38 10 58 3 1,000 184 0 276 0 MAX FACTOR HOLLYWOOD AND LONDON (SALES), LTD. Hi-Fi "censored" lipstick‡
B.P., tablets) 1 mgm. 30 500 5 mgm. 30 100 500 Hydro-Adreson (hydrocortis eye ointment,	315 6 20 80 26 78 315	8 10 0 30 0 120 3 39 9 118 0 473	9 4½ R 8 1½ R 2 6 R 0 0 R 0 0 R 0 0 R 9 4½ R	5 mgm. 30 100 500 Hydrocortisyl (hydrocortisone cye drops bottle 3 mils eye ointment 0.5 per cent, tube 3 gm. 2.5 per cent, 3 gm. skin lotion 0.25 per cent, bottle 20 mils 0.5 per cent, 20 mils	80 0 R 26 3 R 78 9 R 315 0 R e) 4 3 R		Twin 390 10
B.P., tablets) 1 mgm. 30 100 500 5 nigm. 30 100 600 Hydro-Adreson (hydrocortis eye ointment, 2½ per cent, tube 3 gm. skin lotion,	315 6 20 80 26 78 315 onc, B	8 10 0 472 8 10 0 30 0 120 3 39 111 0 472 ,P.)	9 4½ R 8 1½ R 2 6 R 0 0 R 0 0 R 0 0 R 9 4½ R 8 1½ R 8 1½ R	5 mgm. 30 100 500 Hydrocortisyl (hydrocortisone cye drops bottle 3 mils eye ointment 0-5 per cent. tube 3 gm. 2-5 per cent. tube 3 gm. skin lotion 0-25 per cent. bottle 20 mils 0-5 per cent. 20 mils 1 per cent. 20 mils skin ointment (Hydro-Cortisyl, non-greasy;	80 0 R 266 3 R 78 9 R 315 0 R 2) 4 3 R 6 0 R		Twin 390 10
B.P., tablets) 1 mgm. 30 100 500 5 mgm. 30 100 500 Hydro-Adreson (hydrocortis eye ointment, 2½ per cent, tube 3 gm.	315 6 20 80 26 78 315 one, B	8 10 0 30 0 120 3 3 3 9 111 0 472 ,P.)	9 4½ R 8 1½ R 2 6 R 0 0 R 0 0 R 0 0 R 9 4½ R 8 1½ R	5 mgm. 30 100 500 Hydrocortisyl (hydrocortisone cye drops bottle 3 mils eye ointment 0.5 per cent, tube 3 gm. 2.5 per cent, 3 gm. skin lotion 0.25 per cent, bottle 20 mils 0.5 per cent, 20 mils 1 per cent, 20 mils skin ointment (Hydro-Cortisyl, non-greasy; and ung, hydrocortison., B.N.F., greasy)	80 0 R 26 3 R 78 9 R 315 0 R 2) 4 3 R 6 0 R 4 3 R 6 9 R 12 6 R		Twin 390 10
B.P., tablets) 1 mgm. 30 100 500 5 mgm. 30 100 500 Hydro-Adreson (hydrocortis eye ointment, 2½ per cent, tube 3 gm. skin lotion, ½ per cent, bottle 20 mils 1 per cent, 20 mils skin ointment (non-greasy ½ per cent, tube 5 gm. 15 gm.	315 6 20 80 26 78 315 onc, B 6 12	9 111 0 472 8 10 0 3 0 120 3 3 3 9 111 0 472 0 9 10 11 10 12 10 10 12 10 10 12 10 10 12 10 10 12 10 10 12 10 10 12 10 10 12 10 10 12 10 12 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10	9 4½ R 8 1½ R 2 6 R 0 0 R 0 0 R 0 0 R 0 0 R 9 4½ R 9 0 R 9 1½ R 9 0 R 0 1½ R 9 0 R	5 mgm. 30 30 100 500 Hydrocortisyl (hydrocortisone cye drops bottle 3 mils eye ointment 0.5 per cent. tube 3 gm. 2.5 per cent. tube 3 gm. skin lotion 0.25 per cent. 50 mils 0.5 per cent. 20 mils 1 per cent. 20 mils 1 per cent. 20 mils skin ointment (Hydro-Cortisyl, non-greasy; and ung. hydrocortison., B.N.F., greasy) 0.5 per cent. tube 5 gm. 15 gm. jar 50 gm.	80 0 R 26 3 R 78 9 R 315 0 R 2 3 R 6 0 R 4 3 R 6 9 R 12 6 R		Twin 390 10
B.P., tablets) 1 mgm. 30 100 500 5 mgm. 30 100 500 Hydro-Adreson (hydrocortis eye ointment, 2½ per cent, tube 3 gm. skin lotion, ½ per cent, bottle 20 mils 1 per cent, 20 mils skin ointment (non-greasy ½ per cent, tube 5 gm. 15 gm. 1 per cent, tube 5 gm. 15 gm. 1 per cent, tube 5 gm.	315 6 20 80 26 78 315 onc, B 6 12 0 2 5 16 4	9 111 0 472 8 10 0 3 0 120 3 3 3 9 111 0 472 0 9 6 18 3	9 4½ R 8 1½ R 2 6 R 0 0 R 0 0 0 R 0 0 0 R 9 4½ R 9 0 R 9 1½ R 9 0 R 9 1½ R 9 0 R 9 1½ R 9 0 R 9 4½ R 9 0 R 9 4½ R 9 0 0 0 R	5 mgm. 30 5 mgm. 30 100 500 Hydrocortisyl (hydrocortisone cye drops bottle 3 mils eye ointment 0.5 per cent, tube 3 gm. 2.5 per cent, 3 gm. skin lotion 0.25 per cent, bottle 20 mils 1 per cent, 20 mils 1 per cent, 20 mils skin ointment (Hydro-Cortisyl, non-greasy; and ung, hydrocortison., B.N.F., greasy) 0.5 per cent, tube 5 gm. 15 gm. 1 per cent, tube 5 gm. 15 gm.	80 0 R 26 3 R 78 9 R 315 0 R 2 3 R 6 0 R 4 3 R 4 3 R 6 9 R 12 6 R		Twin 390 10
B.P., tablets) 1 mgm. 30 100 500 5 mgm. 30 100 500 Hydro-Adreson (hydrocortis eye ointment, 2½ per cent, tube 3 gm. skin lotion, ½ per cent, bottle 20 mils 1 per cent, 20 mils skin ointment (non-greasy, ½ per cent, tube 5 gm. 15 gm. 1 per cent, tube 5 gm. 15 gm. 2½ per cent, tube 5 gm. 2½ per cent, tube 5 gm.	315 6 20 80 26 78 315 onc, B 6 6 12) 2 5 16 4 10 30 9	9 114 0 472 8 10 0 30 0 122 3 349 0 472 P.) 0 9 11 6 19 3 6 2 3 11 0 4 2 6 19	9 4½ R 8 1½ R 0 0 R 0 0 0 R 0 0 0 R 9 0 4½ R 1½ R 9 0 R 0 1½ R 0 0 1½ R 0 0 1½ R 0 0 0 0	5 mgm. 30 30 100 500 Hydrocortisyl (hydrocortisone cye drops bottle 3 mils eye ointment 0.5 per cent, tube 3 gm. 2.5 per cent, bottle 20 mils 0.5 per cent, 20 mils 1 per cent, 20 mils 1 per cent, 20 mils skin ointment (Hydro-Cortisyl, non-greasy; and ung, hydrocortison., B.N.F., greasy) 0.5 per cent, tube 5 gm. 15 gm. 1 per cent, tube 5 gm. 15-gm. 2.5 per cent, tube 5 gm.	80 0 R 26 3 R 78 9 R 315 0 R 2 3 R 6 0 R 4 3 R 6 9 R 12 6 R 2 3 R 6 9 R 12 6 R		Twin 390 10
B.P., tablets) 1 mgm. 30 100 500 5 mgm. 30 100 500 Hydro-Adreson (hydrocortis eye ointment, 2½ per cent, tube 3 gm. skin lotion, ½ per cent. bottle 20 mils 1 per cent. 20 mils skin ointment (non-greasy) ½ per cent, tube 5 gm. 15 gm. jar 50 gm, 1 per cent. tube 5 gm. 2½ per cent tube 5 gm. 15 gm. jar 50 gm, 15 gm. jar 50 gm, 2½ per cent. tube 5 gm. 15 gm. 15 gm. 15 gm. 15 gm. 15 gm. 17 gm. 18 gm. 19 gm. 20 gm. 19 gm. 19 gm. 19 gm. 19 gm. 19 gm.	315 6 20 26 78 315 onc, B 6 6 12) 2 5 16 4 10 30 9 22 66	9 111 0 472 8 10 0 3 0 120 3 3 3 9 111 0 472 P.) 0 9 16 19 3 3 1 10 4 6 2 3 3 1 10 4 6 11 6 11 6 11 6 11 6 11 6 11 6 11 6	9 4½ R 8 1½ R 0 0 R 0 0 0 R 0 0 0 R 9 4½ R 9 0 R 9 4½ R 1 ½ R 9 0 R 9 4½ R 1 ½	5 mgm. 30 100 500 Hydrocortisyl (hydrocortisone cye drops bottle 3 mils eye ointment 0.5 per cent, tube 3 gm. 2.5 per cent, 3 gm. skin lotion 0.25 per cent, bottle 20 mils 0.5 per cent, 20 mils 1 per cent, 20 mils skin ointment (Hydro-Cortisyl, non-greasy; and ung, hydrocortison., B.N.F., greasy) 0.5 per cent, tube 5 gm. 15 gm. jar 50 gm. 1 per cent, tube 5 gm. 15 gm. jar 50 gm. 2.5 per cent, tube 5 gm.	80 0 R 26 3 R 78 9 R 315 0 R 2) 4 3 R 6 0 R 4 3 R 6 9 R 12 6 R 2 3 R 6 9 R 12 6 R		Twin 390 10
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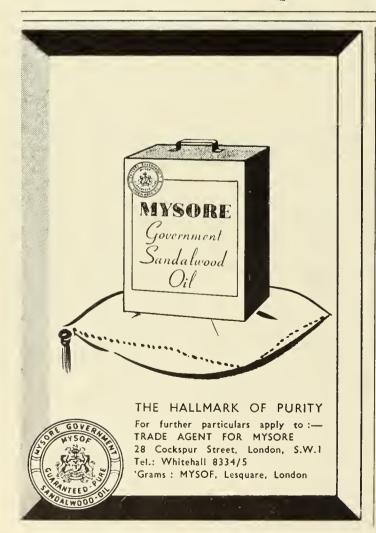
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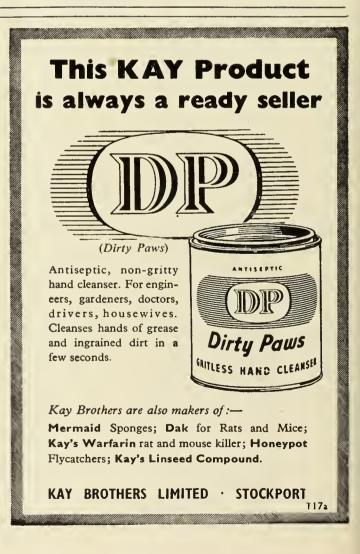
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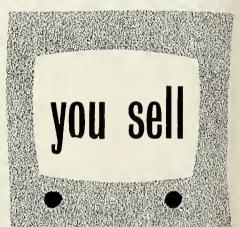












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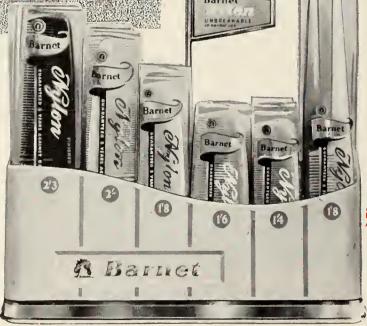
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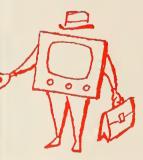
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Reaching millions of Rheumatism sufferers —over and over again!

Special display bonus—13 to the dozen

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THRU may be combined with other Rexall Specialities* to obtain 10% discount on direct orders over £10, or 5% over £5, bringing . . .

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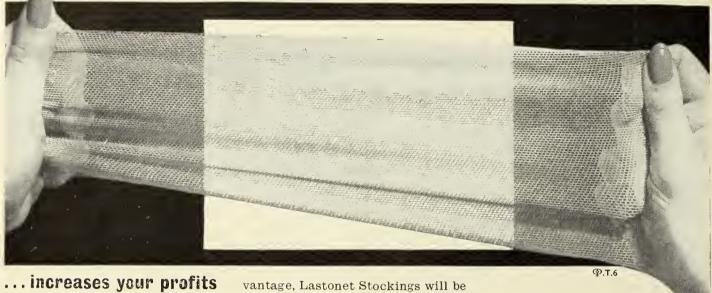
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BUSINESSES FOR DISPOSAL

AT OXFORD. Busy shopping centre, multiples adjacent, Rent £390 p.a, Own shop front required, No premium, Apply, Silk's Estates, 66 Baker Street, W.1. Hunter 0857. C 1674

EDINBURGH. Progressive suburban pharmacy; p.a. Nct profit £2,000 p.a. Property, fixtures, fittings and goodwill £4,000, stock at valuation (approx. £1,800). Entry as may be arranged. Further particulars and offers, Blackwood & Smith, W. S. Peebles. Phones 2131/2. C 419

LONDON. Old-established wholesale sundricsman for sale. Has been neglected and is offered cheap. Good opportunity for energetic salesman. Leasehold premises comprising fully equipped office and warehouse. Low rent. Box C 1706.

OWING TO DEATH of proprietor, small Derbyshire town. Opportunity occurs for conscientious person to acquire chemist and druggist business property (living accommodation). Together with fixtures and stock. No deposit. To be had on mortgage. Further particulars from W. Smith, 7 King Street, Alfreton, Derbys C 1670 Derbys.

PERCY MAIN, TYNESIDE. Well est, family pharmacy with well-fitted d./f. shop, and living acc. Sub-post-office at premises (salary £949), but purchaser must apply G.P.O. for position. Av. turnover (ex-G.P.O.) £8,242 (gross p. ex-G.P.O. £2,296). Price, freehold, £3,300, or negotiate lease, business £3,000 plus stock at valuation. Apply, Anderson & Haggie, 5 St. Mary's Place, Newcastle-upon-Tyne, for further details.

APPOINTMENTS

BEXLEY HOSPITAL MANAGEMENT COMMITTEE, BEXLEY HOSPITAL (FOR NERVOUS AND MENTAL DISORDERS),

DISORDERS),
DARTFORD HEATH,
BEXLEY, KENT
Chief Pharmacist
required, Category III post. Vacant September
1, 1958, Salary scale, £815-£1,100 p.a.
Applications, giving names of two referees,
should be sent to the Group Secretary at the
Hospital within 21 days,
C 8308

BARNET GENERAL HOSPITAL, WELLHOUSE LANE, BARNET, HERTS

(461 beds)

Assistant-in-Dispensing
required, Whitley salary scale with London
Weighting; new well-equipped department.
Hospital convenient to Northern Linc (High
Barnet) station, Apply to Hospital Secretary,
with details of experience and qualifications,
and names of two referees. C 420

BETHNAL GREEN HOSPITAL, CAMBRIDGE HEATH ROAD, LONDON, E.2

Locum Pharmacist

Salary up to 16 guineas a week. Apply to Hospital Secretary, Fel.; ADV, 3413. C 397

BROOKWOOD HOSPITAL,

BROOKWOOD HOSPITAL,
KNAPHILL, WOKING
Assistant-in-Dispensing
Applications are invited for the above post.
The successful candidate will be required to work under the supervision of the Chief Pharmacist, who is responsible for the preparation and issue of drugs and dressings for about 1.750 patients.
Salary scale £170 p.a. at age 16 years rising to £375 at age of 22 years or over rising to a maximum of £490 p.a. (plus £20 p.a. for an approved qualification).

maximum of £490 p.a, (plus £20 p.a, for an approved qualification). Professional and Technical Council B of Whitley Council conditions apply to the appointment which is subject to the provision of the National Health Service Superannuation Regulations. lations,

The successful candidate will be required to pass

Accommodation available for female candidate for which a charge of £2 8s, per week will be

made.

Applications giving particulars of age, experience and qualifications, together with names of two referees to the Physician Superintendent, as soon as possible.

C 417

CENTRAL GROUP HOSPITAL
MANAGEMENT COMMITTEE
Locum Dispensing Assistant
required for the following period:
Scptember 22 to 27.
Salary up to £9 11s, 6d, per week, plus London Weighting according to age and qualifications. Applications to the Chief Pharmacist, St. Leonard's Hospital, Nuttall Street, London, N.1, C 415

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Appointments—Continued

CHINGFORD HOSPITAL, E.4, THORPE COOMBE MATERNITY HOSPITAL, WALTHAMSTOW, E.17 Assistant-in-Dispensing required for duties at the above hospitals. Post vacant October 1, 1958. Whitley Council terms and conditions. Applications with copies of two recent testimonials to Secretary, Forest Group H.M.C., Langthorne Road, E.11. C 8337

CONNAUGHT HOSPITAL,
WALTHAMSTOW, E.17
Locum Assistant-in-Dispensing (Apothecaries'
Hall Certificate)
required at the above hospital from 8.9.58 to
20.9.58, £9 11s, 6d, p.w. Apply, Secretary,
Forest Group H.M.C., Langthorne Road, E.11.
C 8345

DERBY No. 2 HOSPITAL MANAGEMENT COMMITTEE, BABINGTON HOSPITAL,

BABINGTON HOSPITAL,
BELPER, DERBYSHIRE
Chief Pharmacist, Group Basis, Category II
Salary £725—1990.

The successful applicant will be responsible for organising and maintaining this service throughout hospitals in the Group and will be based at Babington Hospital, Belper.
Applications, stating age, qualifications and full details of experience, together with the names of two referces to be forwarded as soon as possible to the Group Secretary, Derby No. 2 Hospital Management Committee, Babington Hospital, Belper.
Canvassing directly or indirectly will disqualify and applicants must disclose in writing whether they are related to any member or senior officer of the Committee.

C 8326

GENERAL HOSPITAL, MARGATE

Locum Pharmacist
required. Applications, stating age, qualifications and experience, with names of two referees, to the Hospital Secretary. C 414

KING EDWARD VII HOSPITAL,
WINDSOR
(Category III Hospital)
Pharmacist
required mid-September. Whitley salary. Applications with details of service and names of three referces to Secretary. C 834

LONDON JEWISH HOSPITAL,
STEPNEY GREEN, E.1
Locum Pharmacist
required at the above hospital from August 18
to September 11, and from October 1 for an
indefinite period. Salary £16 16s. per week.
Applications to the Chief Pharmacist (Tel.:
Stepney Green 4251). C 8338

LAMBETH HOSPITAL,

BROOK DRIVE, S.E.11
Assistant-in-Dispensing
required. Whitley Council rates of pay and conditions, Applications in writing, giving names of two referces to the Secretary. C 390

LONDON JEWISH HOSPITAL,
STEPNEY GREEN, E.1
Pharmacist
required at the above hospital from October 1,
1958, Whitley Council salary and conditions
of service. Applications stating age, qualifications, experience, and giving the names of two
referees to the Secretary, Stepney Group Hospital Management Committee, Mile End Hospital, Bancroft Road, E.1.

C 8339

METROPOLITAN HOSPITAL,
KINGSLAND ROAD,
LONDON, E.8
Scnior Pharmacist
for modern department. Permanent post vacant
due to retirement. Salary £680 to £870 p.a. plius
appropriate higher qualification allowance.
Apply with details of agc, training and experience to the Hospital Secretary.

C 398

NAPSBURY HOSPITAL,

NEAR ST. ALBANS
Part-time Assistant-in-Dispensing
17½ hours per week, Non-resident, Canteen facilities. Not Monday or Tuesday, Hours by arrangement with Chief Pharmacist, Salary £4 7s, 6d, per week, Referees required, Call or write to Chief Pharmacist, C 8311

NATIONAL HEALTH SERVICE JOINT PRICING COMMITTEE FOR ENGLAND Superintendent Applications are invited for the post of Superintendent of the Wakefield Pricing Bureau, 55 Westgate, Wakefield. The salary scale is £814 p.a. x £33 (5) x £20 (1) to £999 p.a. The Superintendent is responsible to the Com-

The salary scale is £614 p.a. A £35 (b) A £616 (l) to £999 p.a.

The Superintendent is responsible to the Committee for the efficient operation of the Bureau and the duties entail, among other things, resolving the many problems arising from the pricing of National Health Service Prescriptions. Pharmaceutical and administrative experience are desirable together with ability to supervise staff.

Applications giving age, education, qualifications, experience and the names of three referees should be sent to the Clerk of the Committee, 38 Northumberland Street, Newcastle-upon-Tyne, 1, before September 12, 1958.

C 8348

NAPSBURY (MENTAL)
HOSPITAL, Nr. ST. ALBANS
Pharmacist (part-time)
required. Hours by arrangement. Details to
Group Secretary. C 8333

NOTTINGHAM No. 1 HOSPITAL MANAGEMENT COMMITTEE, NOTTINGHAM EYE HOSPITAL Chief Pharmacist (Category II) Applications are invited for the appointment of Chief Pharmacist (non-resident) at the above Hospital. Salary and conditions of service in accordance

Hospital.

Salary and conditions of service in accordance with Whitley Council Regulations.

Applications giving full particulars together with the names of three referees to be sent as soon as possible to the Group Secretary.

General Hospital, Nottingham. C 408

NAPSBURY (MENTAL) HOSPITAL MANAGEMENT COMMITTEE, Nr. ST. ALBANS Locum Tenens Pharmacist required at £16 16s, per week, Details to Group Secretary with names of two referees in an envelope endorsed "Locum Pharmacist." C 8334

NOTTINGHAM EYE HOSPITAL

Assistant-in-Dispensing
required, Duties to commence immediately.
Salary and conditions of service in accordance with the Whitley Council,
Applications stating age, experience, qualifications, and the names of two referees to be sent to the Group Secretary, General Hospital,
Nottingham.

C 413

PORTWEY, PORTLAND,

PORTWEY, PORTLAND, and
WEST HAVEN HOSPITALS,
WEYMOUTH, DORSET
Chief Pharmacist, group II
required for the above hospitals. Salary scale: £725—£990 per annum.
Applications stating age, qualifications, and experience, together with names of two referees, to the Group Secretary, West Dorset H.M.C., Damers Road, Dorchester, Dorset, by September 1, 1958.

C 8335

ROYAL FREE HOSPITAL, GRAY'S INN ROAD, W.C.1
Pharmacist

Applications are invited for the above post at this hospital. Salary in accordance with Whiteley Council Scale. Applications, with names of two referees, should be addressed to the Group Pharmacist.

C 8319

SPRINGFIELD HOSPITAL,

TOOTING, LONDON, S.W.17

Assistant-in-Dispensing
required. Salary scale £395 p.a. at age 22 or over rising to a maximum of £520 p.a. (plus £20 p.a. for approved qualification). Applications giving particulars of age, experience, qualifications and names of two referees to Group Secretary as soon as possible.

C 8303

ST. LEONARD'S HOSPITAL,

NUTTALL STREET, N.1

Locum Pharmacist
required from 15th to 20th September, Salary
16 gns. per week, Applications to Chief Pharmacist, Tel.; Shoreditch 3311, C 410

ST. LAWRENCE HOSPITAL, CHEPSTOW

CHEPSTOW Dispenser
required, Apothecaries' Hall or equivalent. Salary at 18, £225; 19, £255; 20, £290; 21, £330; 22 or over £395—£510. Residential accommodation available if desired, or accommodation found in locality if wishes to be non-resident. Write, quoting two referees, to T. A. Jones, Group Secretary, 64 Cardiff Road, Newport. Mon.

STAINES GROUP HOSPITAL MANAGEMENT COMMITTEE, ASHFORD HOSPITAL,

ASHFORD, MIDDLESEX
Locum Pharmacist
required. Salary £16 16s. per week. Applications, stating age, qualifications and experience, with copies of up to three recent testimonials, to Medical Director of Hospital immediately.

ST. HELIER HOSPITAL, CARSHALTON, SURREY (Category V—733 beds)
Assistant-in-Dispensing required for general dispensing duties in busy department. Experience of sterilising techniques an advantage, Canteen facilities available. London Weighting payable. Applications with names of two referees to the Secretary, C 8347

ST. LEONARD'S HOSPITAL, NUTTALL STREET, LONDON, N.1

Locum Pharmacist
required immediately. Salary up to 16 gns,
week, Apply to Hospital Secretary, Telephone
Clerkenwell 2901.

ST. MARK'S HOSPITAL, CITY ROAD, LONDON, E.C.1 Locum Pharmacist required for indefinite period commencing im-mediately. Salary £16 16s, per week. Write or telephone to Secretary. (Cle, 8821.) C 8304

ST. LEONARD'S HOSPITAL, NUTTALL STREET, LONDON, N.1 Senior Pharmacist

Permanent post in modern department. Salary £650 to £830, plus appropriate London Weighting and higher qualification allowance. Apply with details of age, training and experience to Hospital Secretary.

PUPILS

GENERAL HOSPITAL,
SOUTHEND-ON-SEA
Students
required in the Pharmacies in the Hospitals in the Southend-on-Sea Group from September 1, 1958. Salary for post-graduate students £385. The hospitals are situated in pleasant surroundings and the posts offer excellent opportunities for experience in all branches of pharmaceutical work including dispensing for inpatients and for patients for a busy Consultative Outpatient Department, manufacturing, sterilising, dressings and instruments, Applications stating age, particulars of education, etc., with the names of two referees, should be sent to the Secretary at the General Hospital, Southend-on-Sea, as soon as possible.

J. C. FIELD, Secretary.

Secretary.

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C 8279

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Retail, Assistant store manager. Opportunity for advancement. Single preferred. Salary £1,380 per annum. Would consider repayable loan to help with air passage, if available at once, Must hold M.P.S. qualification of Great Britain or N. Ireland.
Apply:—Mr. S. Y. Marr, Standard Drug Limited,
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C 1687

EDUCATIONAL

LONDON COLLEGE PHARMACY AND CHEMISIRY FOR WOMEN 7 Westbourne Park Road, W.2 Established 1892

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SITUATIONS VACANT RETAIL HOME

CHEMISTS. OLDHAM CO-OPERATIVE CHEMISTS, LTD., invite applications for position of pharmacist branch manager. Accommodation modern house made available, if necessary, Superannuation. Salary and other emoluments, £930. Applications, giving age, experience, etc., to Oldham Co-operative Chemists, Ltd., King Street, Oldham. CO-OPERATIVE

YOUNG QUALIFIED, male or female, required for branch pharmacy, North-east Scotland. Excellent opportunity for acquiring managerial experience. Apply Box C 1689.

LOCUMS WANTED

LOCUM PHARMACIST required for the first two weeks in September, fully staffed, very light duties, interesting high-class business in South Kensington. Box C 1678.

RETAIL (OVERSEAS)

PHARMACIST wanted for retail pharmacy PHARMACIST wanted for retail pharmacy in Salisbury, Southern Rhodesia. Excellent working conditions, To start October 1, Accommodation easily available, low income tax. Very good prospects, Salary £110 per month. Nightwork available at 12/6 per hour if desired. Plassage for self refunded on signing three-year contract. Please send references and recent photograph to Advertiser, Box 437, Salisbury, S, Rhodesia.

C 1675

WHOLESALE

ALLIED LABORATORIES, LIMITED Medical Representatives

Applications are invited for the fol-lowing territories:—

South Lancs and Cheshire
Hampshire
Clasgory

Glasgow.

Glasgow.
Previous experience in representation work is desirable but consideration given to men with sound pharmaceutical and medical background. Applicants should hold current driving ficence and reside on the territory applied for. Remuneration by salary, bonus and expenses, Life assurance and pension scheme in operation and car provided. Apply in confidence, giving full details, to Sales Manager, Allied Laboratories, Ltd., 140 Park Lane, W.1. C 421

BEECHAM OVERSEAS LIMITED have vacancies for Technical Assistants age 25/35. The successful applicants must be Qualified Chemists, Pharmacists or Qualified Chemical Engineers and must have held a responsible position on production in a factory within the Pharmaceutical or Chemical Industry and be experienced in modern production methods. Applicants must also be wilfing to serve in a managerial position overseas. Profits Participation and non-contributory Pension Schemes in operation. Apply in writing only, giving full details of age, qualifications and experience, to Personnel Controller, Beecham Group Limited, Beecham House, Great West Road, Brentford, Middlesex. C 8309 CALMIC, LIMITED, invite applications for the post of Medical Representative, Territory comprises North-west London, Bucks, Beds, and Berks. Preference given to person with pharmaceutical or medical background. Applicants should possess initiative, be of pleasant personality and appearance and be conversant with this area, This position offers excellent opportunities for advancement with a progressive and expanding company. A car will be provided and a generous starting salary and expenses are also offered. A life assurance and pension scheme is operated by the company. Applications, which will be treated as strictly confidential, to: General Sales Manager, Calmic, Ltd., Crewe, Cheshire. C 8340 ORDER and stock control elerk with experience of ethical medicines required for small West End office of wholesale chemists, Fiveday week, pleasant working conditions, Apply in writing, stating age, experience and salary required to Box C 1676.

EXPERIENCED personnel required for order as embly/checking in busy wholesale ethical proprietary department. Consideration will only be given to applicants with a wide and up-to-date practical knowledge of med.cal specialities and experience in a similar capacity. Good pay and pension scheme. Apply in writing, giving full particulars of age and experience to J. R. Gibbs, 1.td., 31/34 Portland Square, Bristol, 2. C 1700

PAINES & BYRNE, LTD.

Medical Representatives. Applications are invited from men up to 35 years of age with sound pharmaceutical or medical background. Experience of medical representation though desirable is not essential, as adequate training will be given. Territories are available in various parts of the U.K. including London and the Home Counties, Midlands and Northumberland and Durham. Remuneration is by salary and expenses and a staff pension scheme is in operation. Applications, which will be treated in the strictest confidence, should be addressed to the Sales Manager, Paines & Byrne, Ltd., Greenford, Middlesex. C 8350

SOUTHERN WAREHOUSE of large retail pharmaceutical organisation requires the services of a pharmaceutical chemist, man or woman, for work in the drug department. Particularly suitable for someone recently qualified whose interests are mainly pharmaceutical. Letters of application giving full details to:

Mr. R. W. Gillham, F.P.S., Timothy Whites. Burley Hill, Leeds, 4.

C 8330

REXALL DRUG COMPANY LIMITED

require a representative for Southern and Western Counties of Ireland, Pharmaccutical background essential. Applicants should be of pleasing personality and appearance and capable car drivers, Good salary, plus commission; full reimbursement of expenses; Company car provided; contributory pension scheme in operation, Applicants should be resident, or prepared to reside, in Cork.

All letters, which will be treated as strictly confidential, should be addressed to Mr. A. E. Anderson, Rexall Drug Company Limited, Duke Lane, Dublin, C 8349

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Required by:

RIKER LABORATORIES LTD.

Since its establishment in 1951 Riker has assumed a prominent position in the ethical pharmaceutical field, and is continuing to expand. This growth necessitates the creation of the new post of Publicity Manager. The successful applicant will have the ability able to take charge of the creation of all types of promotional material and advertise-ments, and the editing of information material for a large force of representatives and overseas

He will also be responsible for package design, exhibition arrangements and public relations of the Company. The appointment will be at an appropriate level of the Company's executive grade.

A Pharmaceutical Degree or Diploma is essential. The precise nature of previous experience is less important than the right outlook plus abilities for creative thought and growth with the Company.

Salary will be in line with the importance of the appointment, and there are Bonus and Pension Schemes in operation. Apply in writing in the first instance to the General Sales Manager, Riker Laboratories, Ltd., Loughborough, Leics.

C 8295

THE CROOKES LABORATORIES LIMITED

require a representative to cover Cornwall, Devon

A pharmaceutical qualification or adequate technical background is essential. The appointment is superannuated and well remunerated with progressive salary, adequate expense allowance and commission directly associated with territorial results. Promotion is possible either in the U.K. or to overseas positions. Only candidates with keen desire to progress should apply in writing with full details regarding age and past experience to the Sales Director, The Crookes Laboratories Limited, Gorst Road, Park Royal, N.W.10.

C 8320

Imperial Chemical Industries Limited Pharmaceuticals Division MEDICAL REPRESENTATIVES

Imperial Chemical Industries Limited intends to increase Imperial Chemical Industries Limited intends to increase its sales force by appointing additional Medical Representatives in various parts of the United Kingdom. Applications are invited from mcn up to 35 years of age with a sound pharmaceutical or medical background. Successful candidates will receive an initial period of training and there will be additional training for young applicants who lack experience of Medical Representative work. Applications with full particulars should be addressed to the Staff Manager, Imperial Chemical Industries Limited, Pharmaceuticals Division, Fulshaw Hall, Wilmslow, Cheshire.

Situations Vacant—Continued

THE BRITISH DRUG HOUSES LIMITED

invite applications from Pharmacists to assist in

FORMULATION AND DEVELOPMENT WORK

Applicants should have completed National Service and be in possession of a degree in pharmacy or equivalent qualification. In addition to a sound pharmaceutical and scientific training, an inventive and inquiring mind will be an essential quality. Previous experience in the formulation of pharmaceutical products will be an advantage, but is not essential, Commencing salary according to age, qualifications and experience. Conditions of employment are good. There is a superannuation fund (contributory) and the Company operates Life assurance and profitsharing schemes. Applications giving full details should be addressed to:

Personnel Manager (Ref. RES), THE BRITISH DRUG HOUSES LIMITED, Graham Street, London, N.1.

C 8343

THE BRITISH DRUG HOUSES, LTD., quire for their Home Sales Department Tele-phone Order Clerks, Pricing Clerks and Order Typists with experience of the Pharmaceutical Typists with experience of the Pharmaceutical trade; a knowledge of ethical and proprietary medicines an advantage. Five-day week, canteen and sports facilities, pension and profit sharing schemes. Apply in writing stating age, experience, and salary required, to the Staff Manager, The British Drug Houses, Ltd., Graham Street, City Road, N.I. C 8331

THOMAS MORSON & SON, LTD.

Applications are invited for a representative for the Midlands and East

sentative for the Midlands and East Anglia.

These territories offer interesting and rewarding work for a man with initiative and a keen sense of responsibility. Previous experience in representative work is desirable, but consideration will be given to a man with sound pharmaceutical background.

Candidates should hold a current driving licence and reside on the territory in question.

ing licence and reside on the territory in question.

Remuneration is by salary and expenses; an attractive life assurance and pension scheme is also provided. A company car is supplied and maintained.

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tained, Applications, treated in strictest confidence, should give full details of career to date and be addressed to the Managing Director, Thomas Morson & Son, Ltd., Wharf Road, Ponders End, Enfield, Middlesex.

UNQUALIFIED male assistant required for South Coast Wholesalers. Permanent progressive post for young man with sound knowledge of ethicals and patents. Pension and life assurance scheme in operation, Please state experience, age and approximate salary expected. Box C 1699.

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BRITISH PETROLEUM COMPANY LIMITED has a vacancy for a Male Pharmacist at its Aden refinery to assist in control of day-to-day running of hospital pharmacy including supervision of work of Indian dispensing assistants and to assist in training of national trainees. Applicants, aged 25-35, must hold M.P.S. and should have two years' experience preferably in a hospital. Attractive salary, free passages out and home, free medical attention, kit allowance, good leave arrangements, Pension scheme, Write giving full particulars, quoting reference F.94, to Box 3118, c/o 191 Gresham House, E.C.2. C 8342

REPRESENTATIVES—WEST AFRICA

MAY & BAKER, LTD., DAGEN-HAM, ESSEX, invites applications from suitably qualified personnel, preferably pharmacists, for two appointments as touring representatives with their Associated Company in Lagos. These will appeal to single young men aged 23 or over who are anxious to go abroad and make a worthwhile career with a growing Organisation. Duties involve promotion of the Company's products to the medical and allied professions as well as to trade and preference will be given to candidates with sound hospital or retail experience. Detailed training is provided in the United Kingdom and short Tours are followed by generous home leave, The Company operates a contributory pension fund and life assurance scheme. Apply initially in writing to the Personnel Officer, giving full details of education and experience, quoting Ref.: 94/58. C 8290

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AGENTS WANTED

AGENTS With a good connection, wholesale and retail chemists, hospitals and health stores required to sell the original products of a leading dietetic food manufacturer in all areas, Good commission and excellent prospects with a sound organisation. Write with full particulars first instance to Box C 1685.

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SITUATIONS WANTED RETAIL HOME

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AREA SALES MANAGER, wide experience in pharmaccutical and allied lines in greater Midlands, requires change. Box C 8344.

MAY I help you, as I seek sales adventure in the West of England. Base Exeter. Let me be your sales specialist and get your products where you want them. I need a firm to collaborate without fuss, so that we can both enjoy the success of perfect representation. Box C 1704.

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C 395

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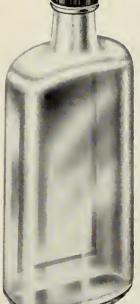
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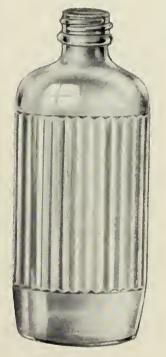
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